

FIG. 1 A

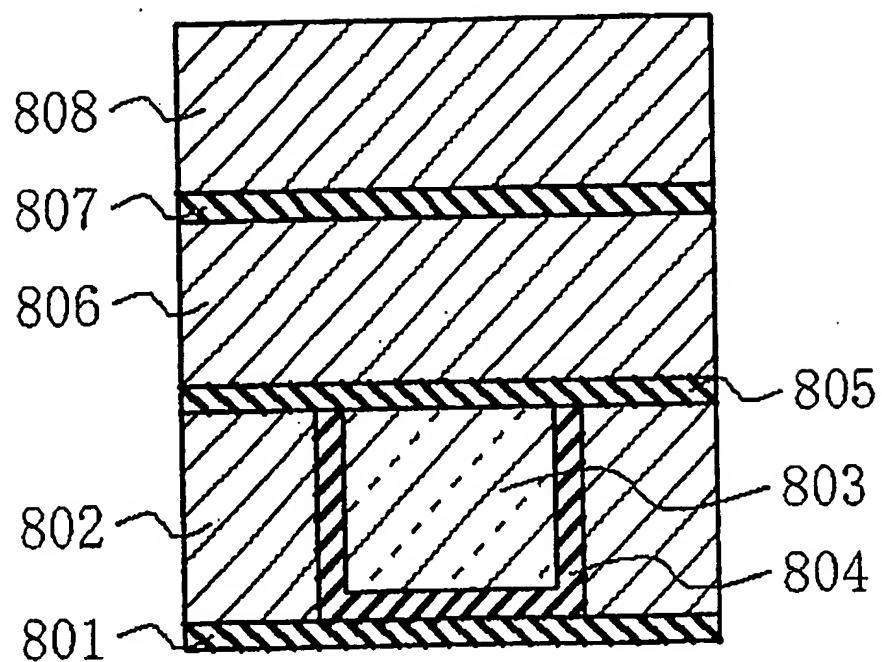


FIG. 1 B

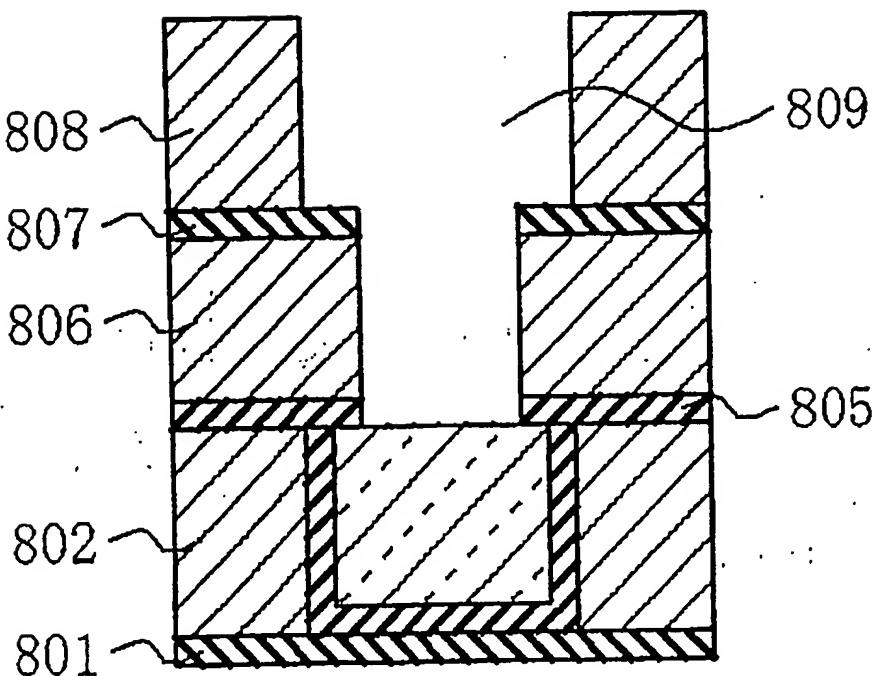


FIG.1C

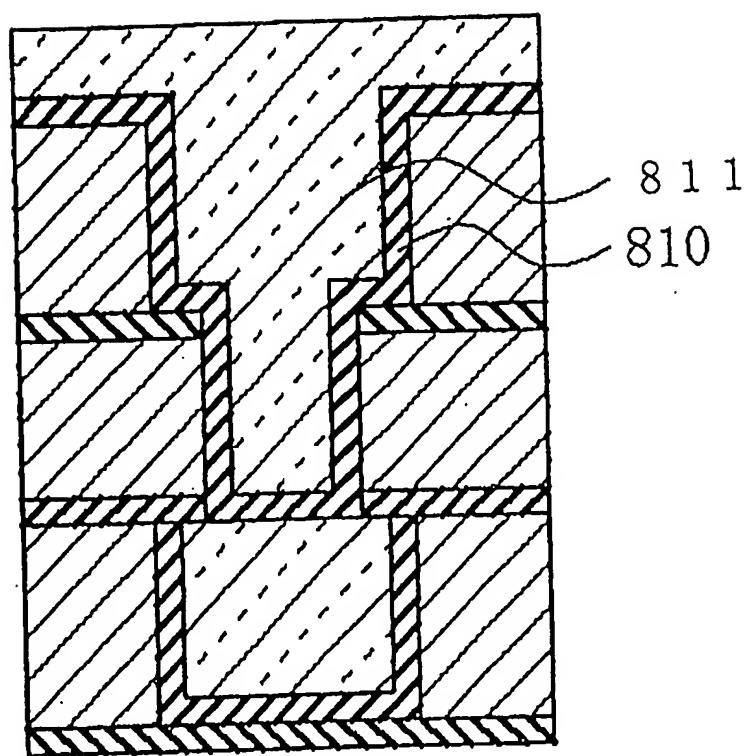
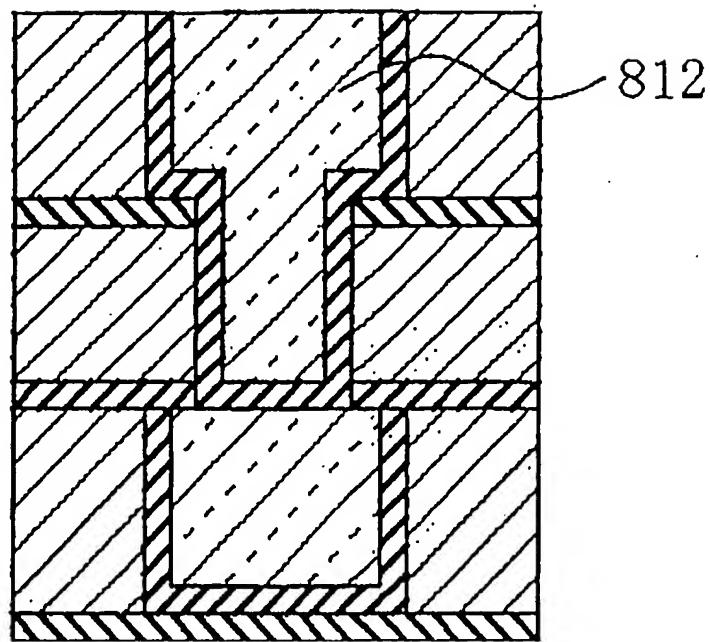


FIG.1D



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FIG.2A

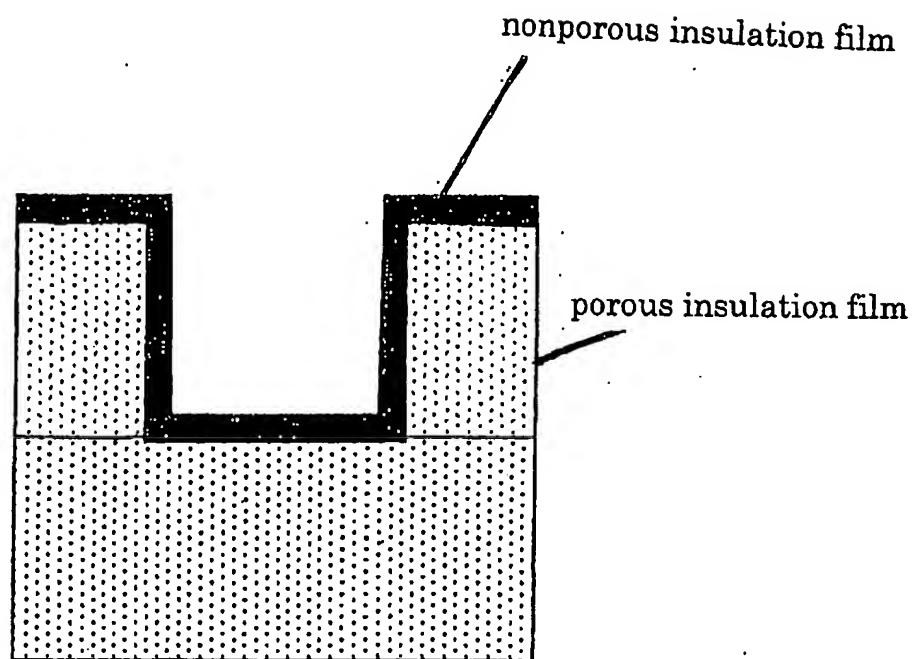


FIG.2B

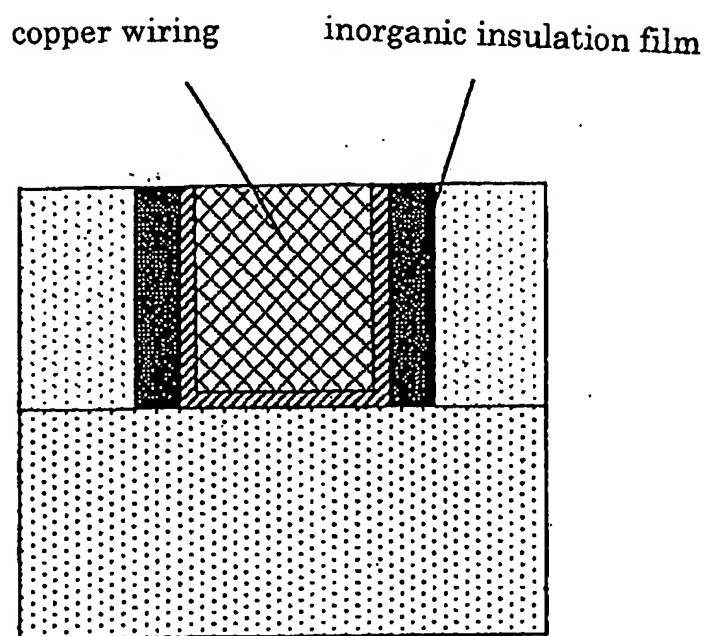


FIG.2C

impossible to form by coating method

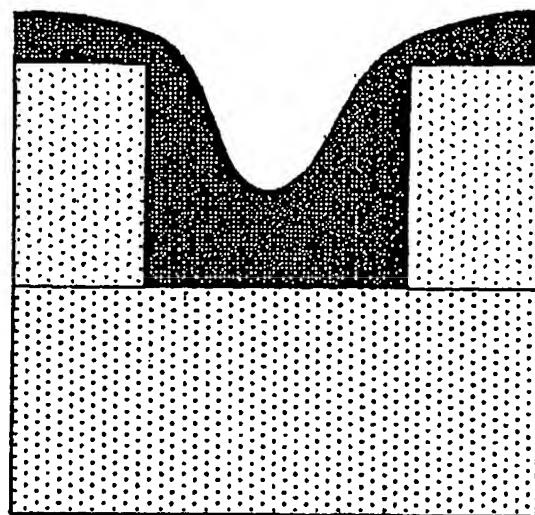


FIG.2D

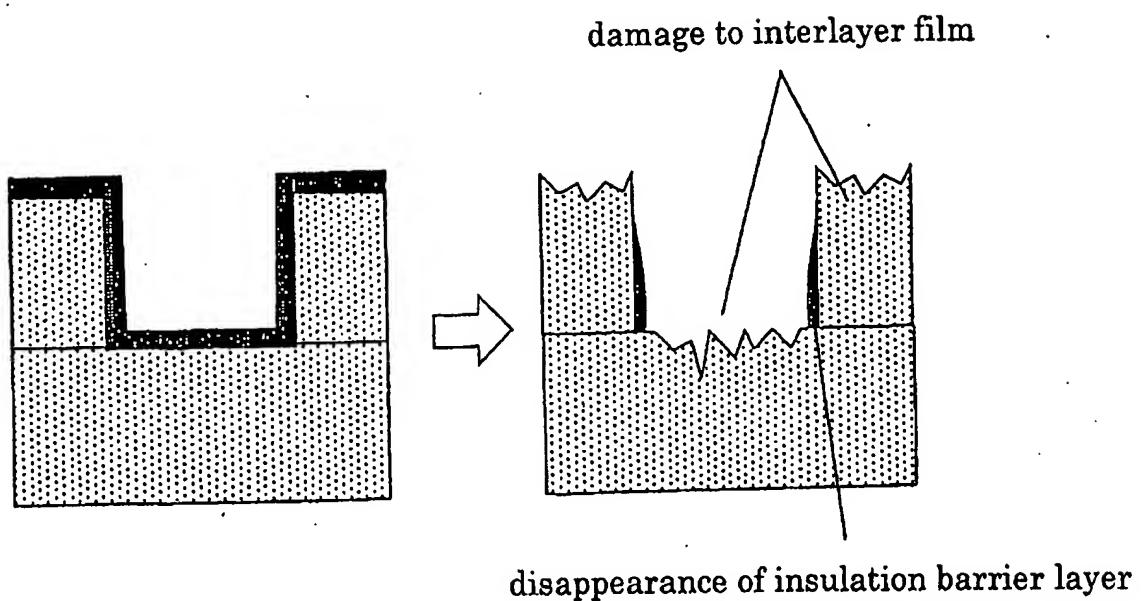


FIG.2E

lowering of cross sectional area

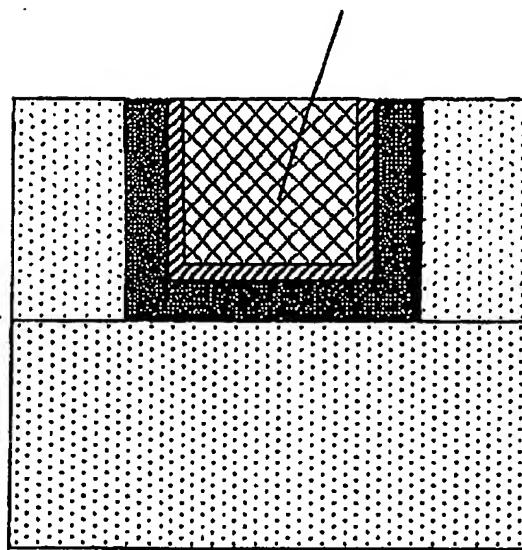


FIG.2F

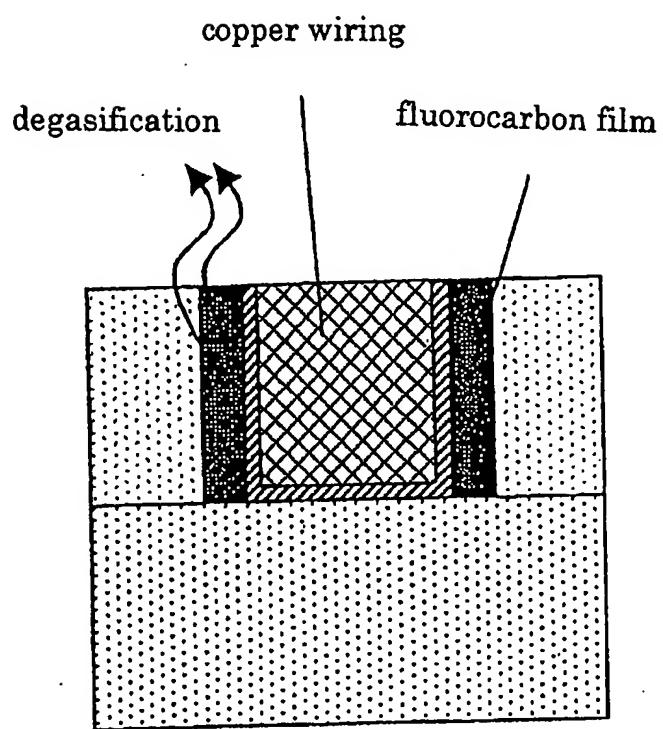


FIG.3A

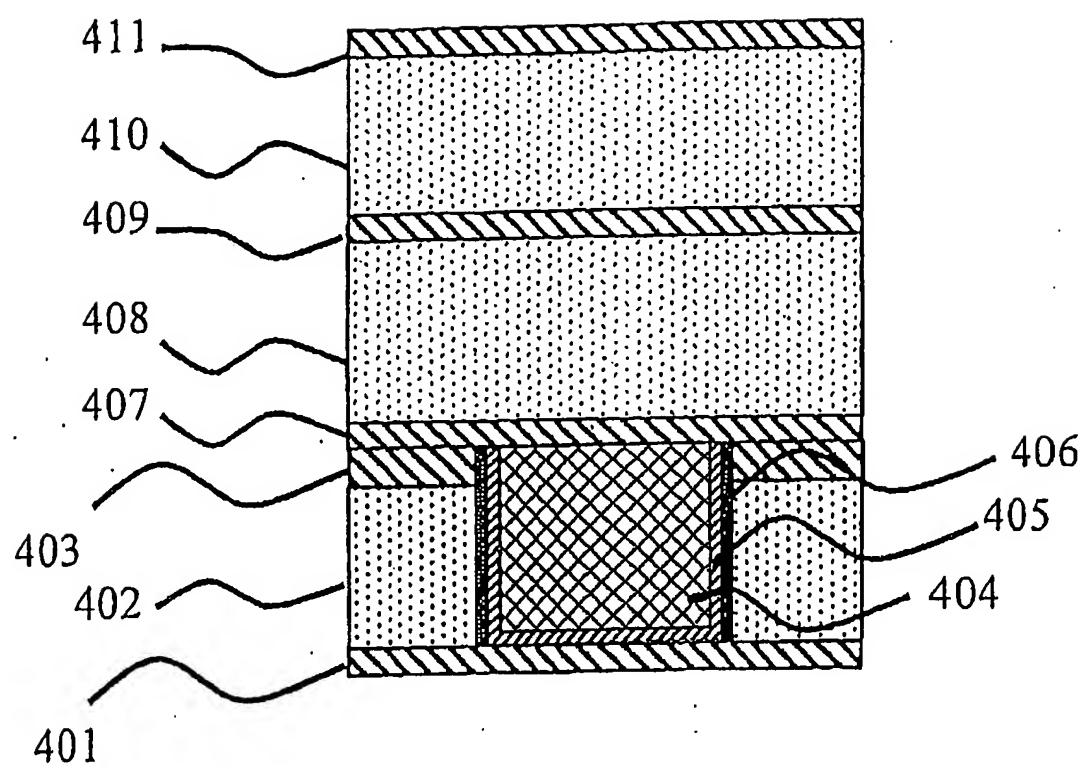


FIG.3B

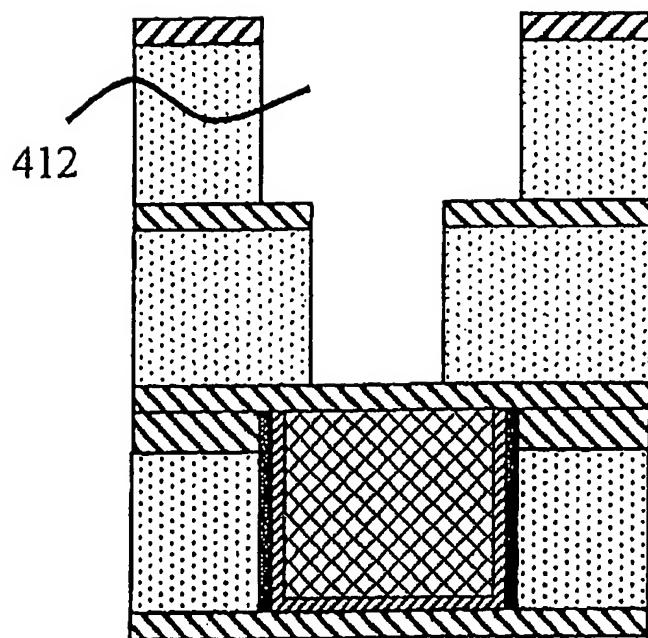
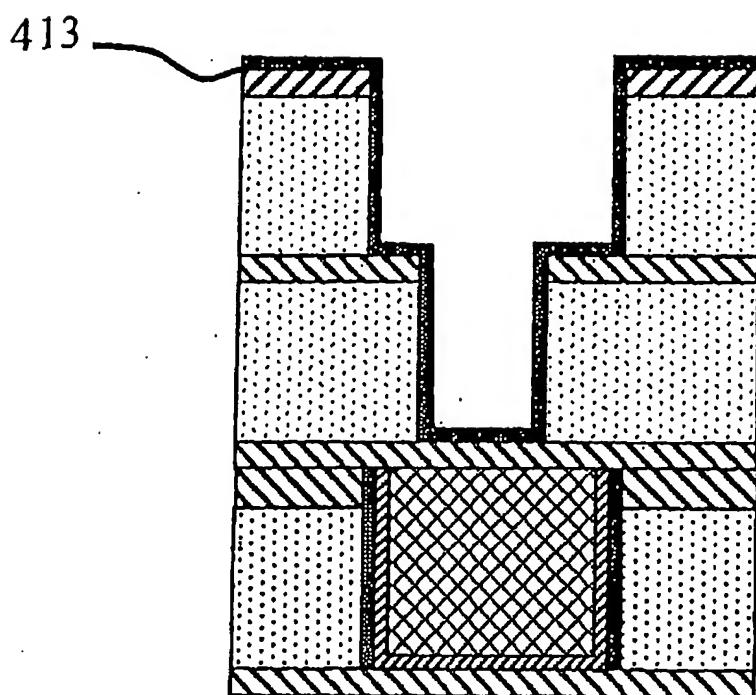
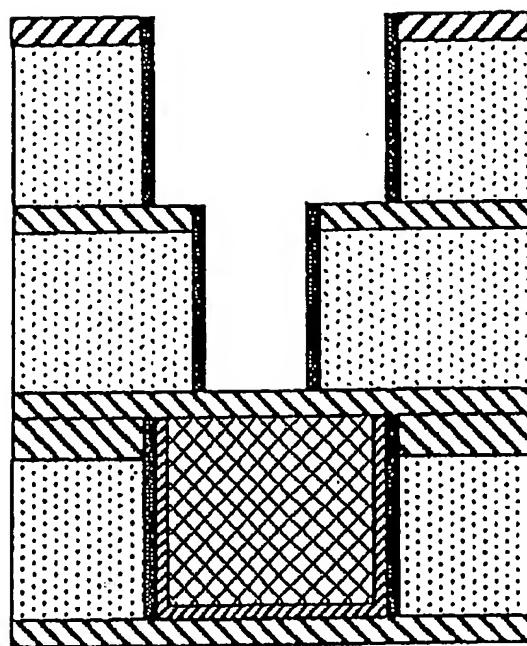


FIG.3C



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FIG.3D



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FIG.3E

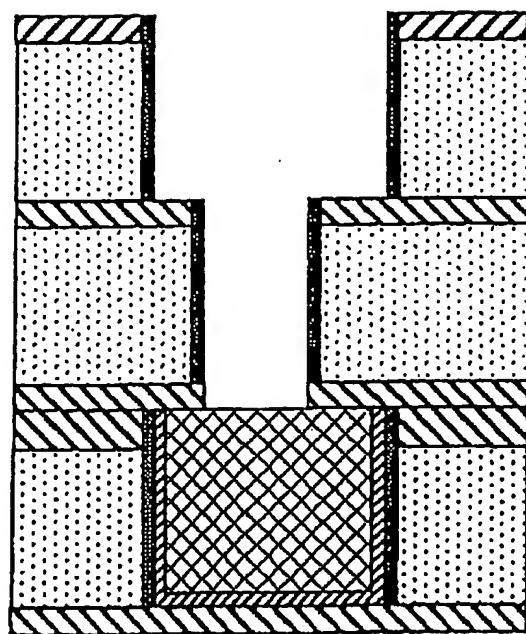


FIG.3F

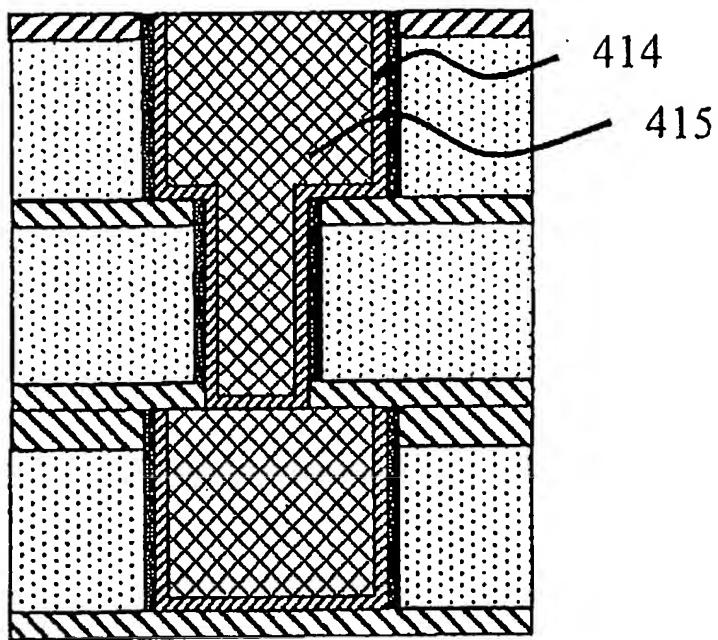


FIG.4A

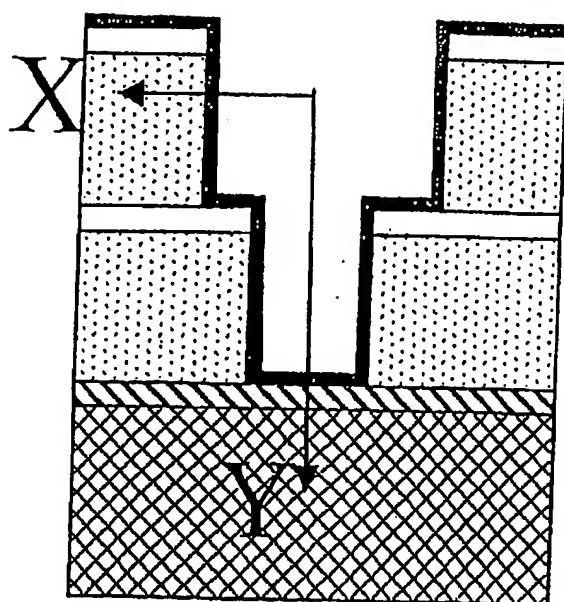


FIG.4B

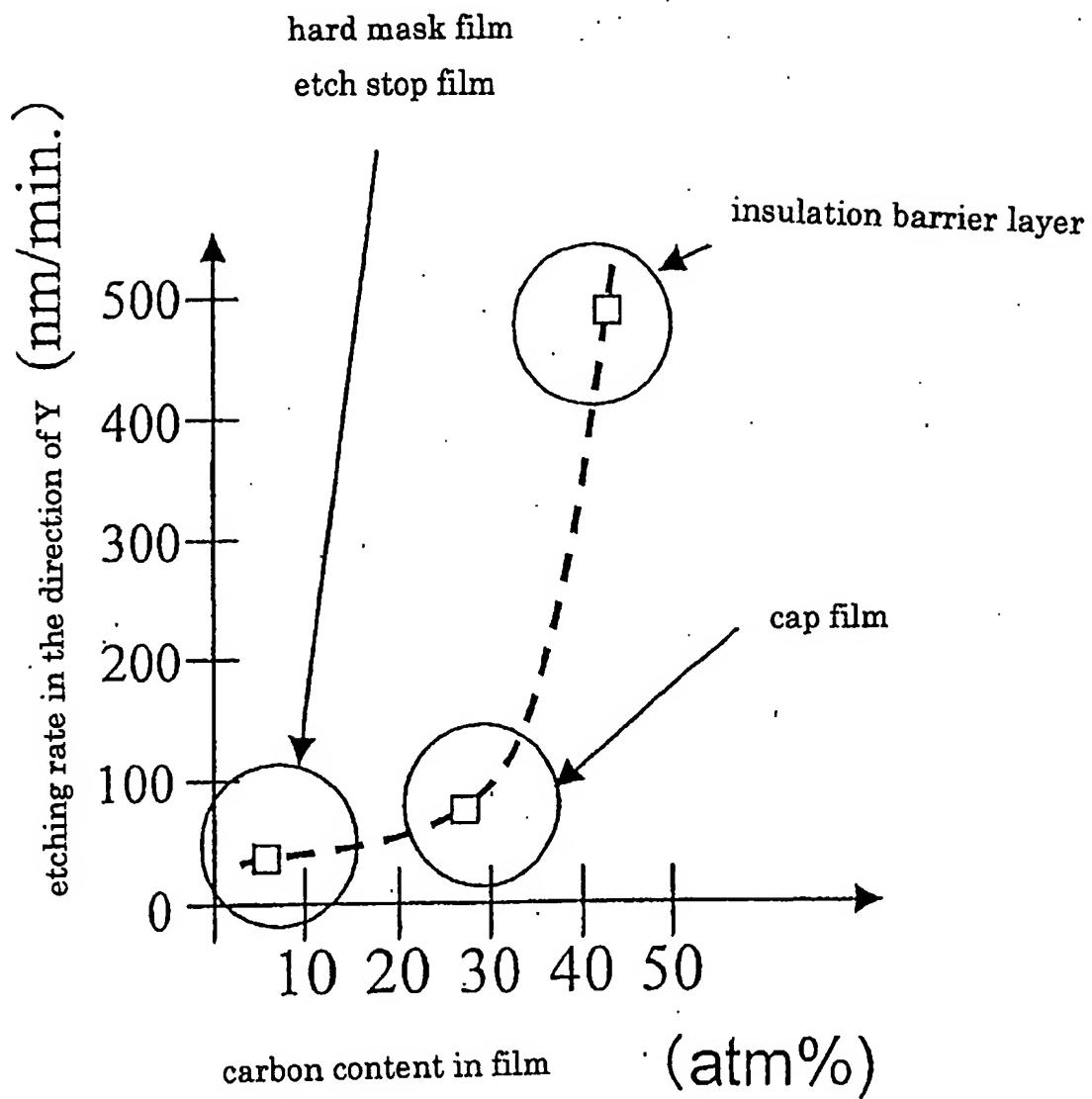


FIG.4C

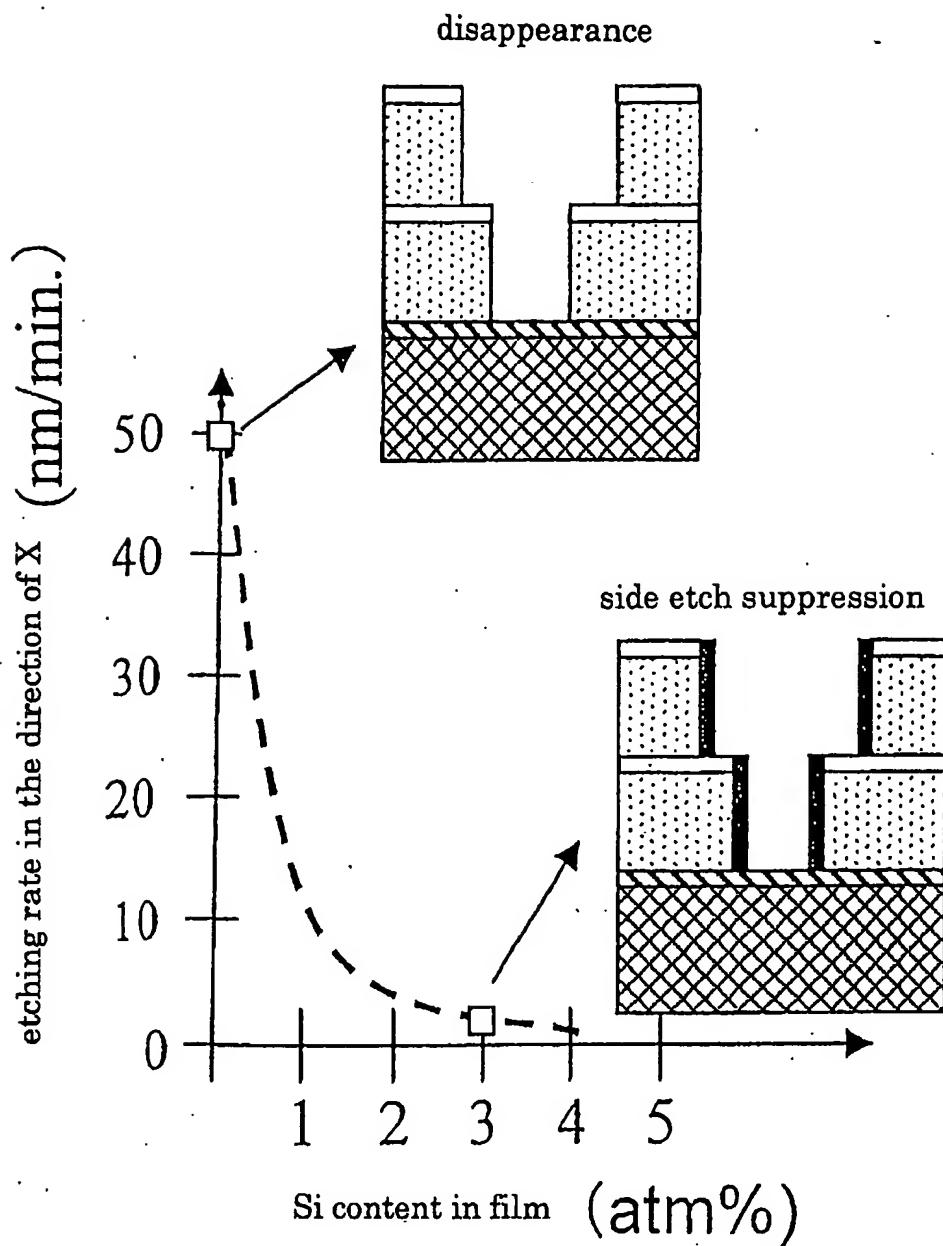


FIG.4D

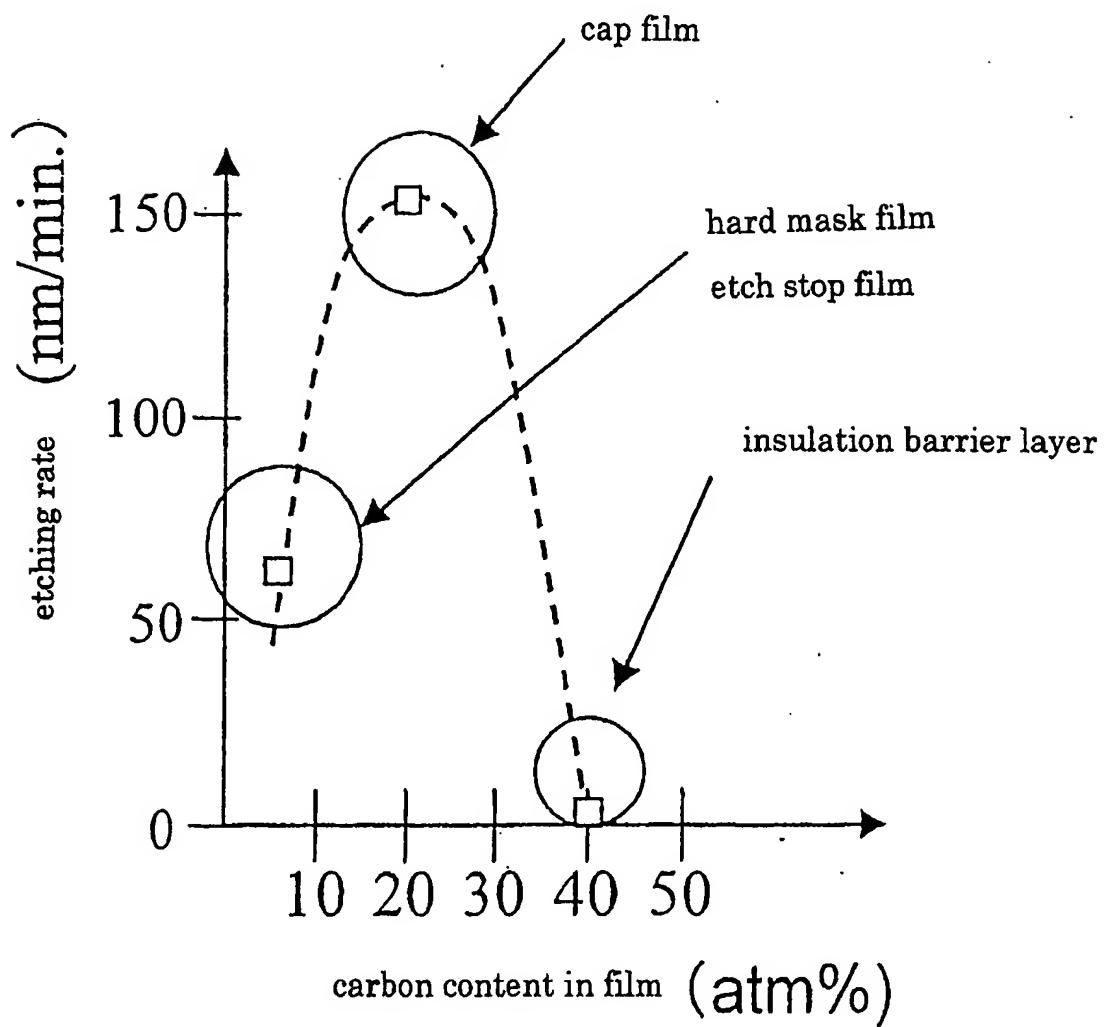


FIG.5A

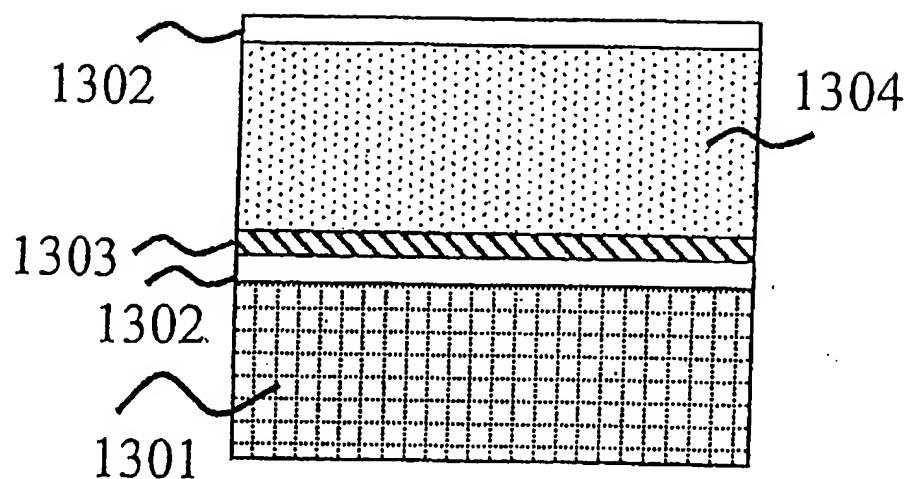
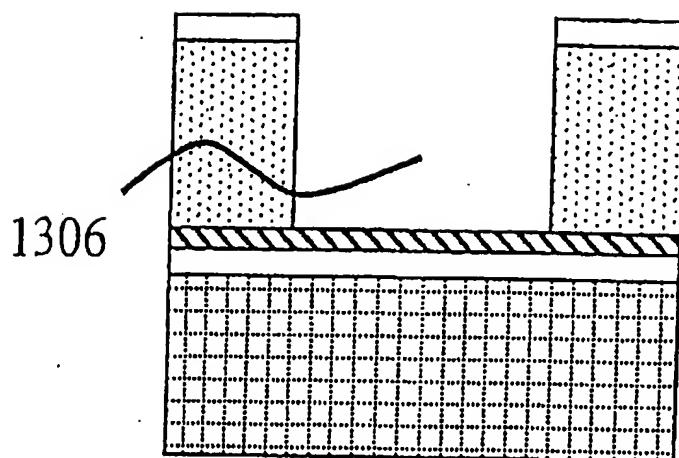
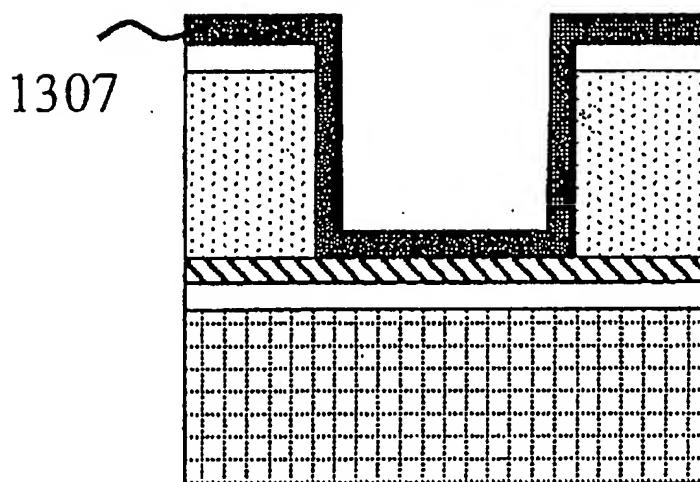


FIG.5B



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FIG.5C



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FIG.5D

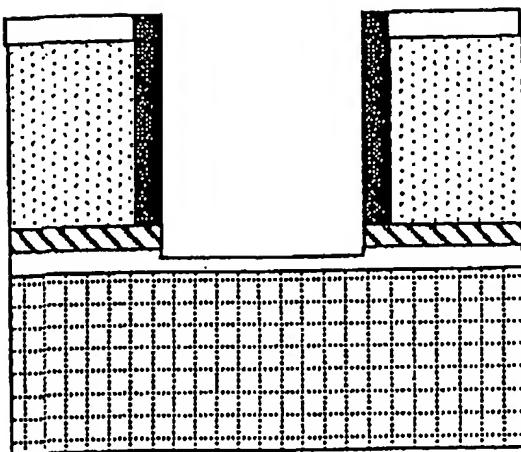


FIG.5E

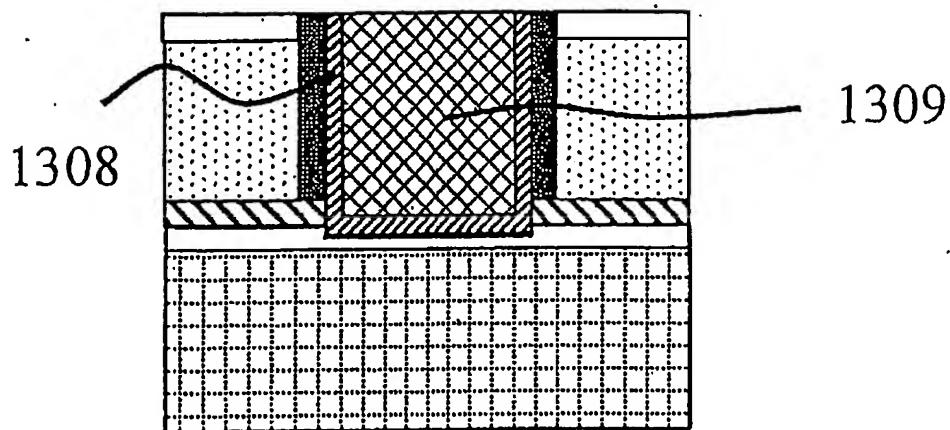


FIG.5F

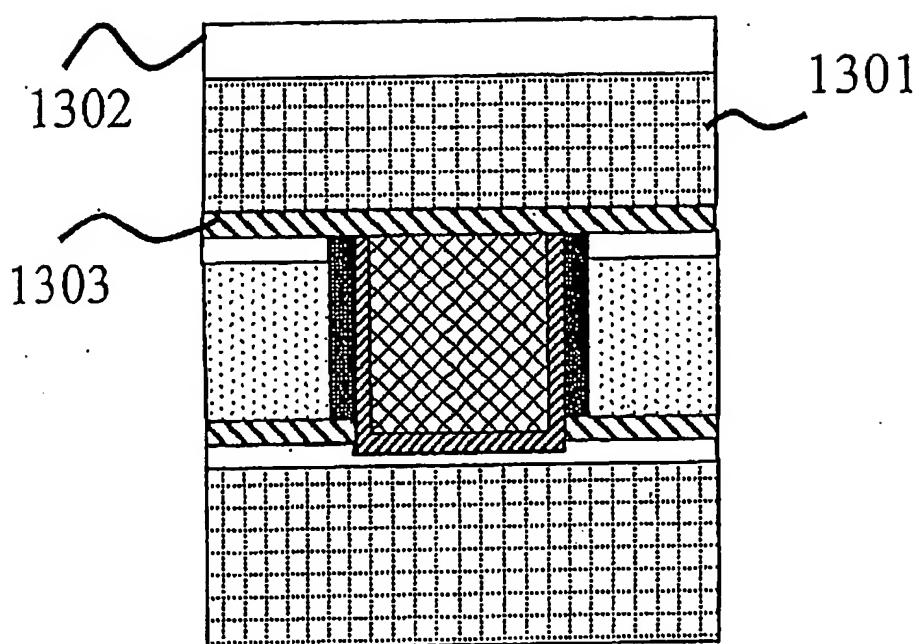


FIG.5G

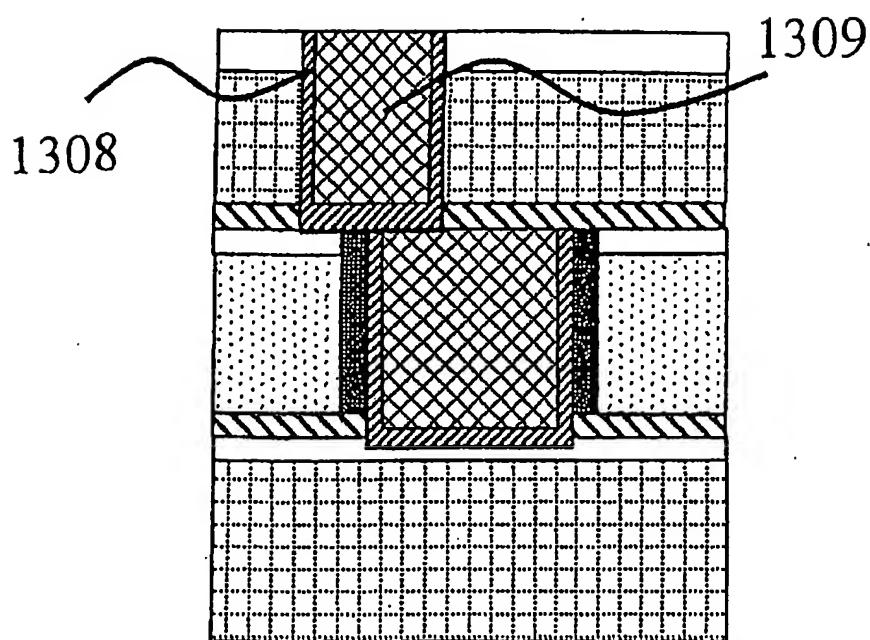


FIG.5H

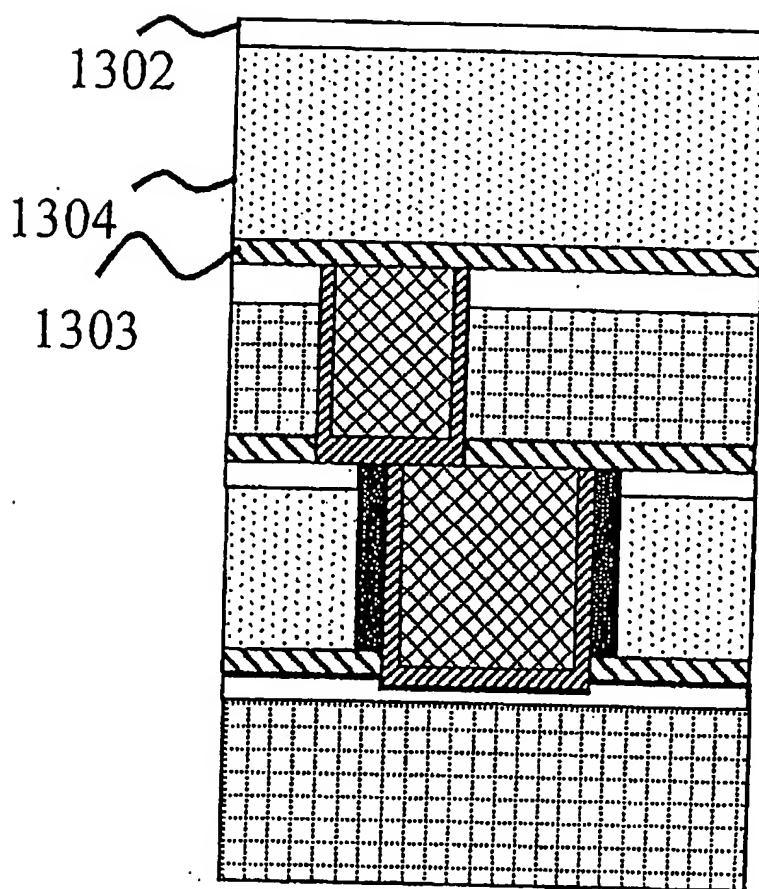


FIG.5I

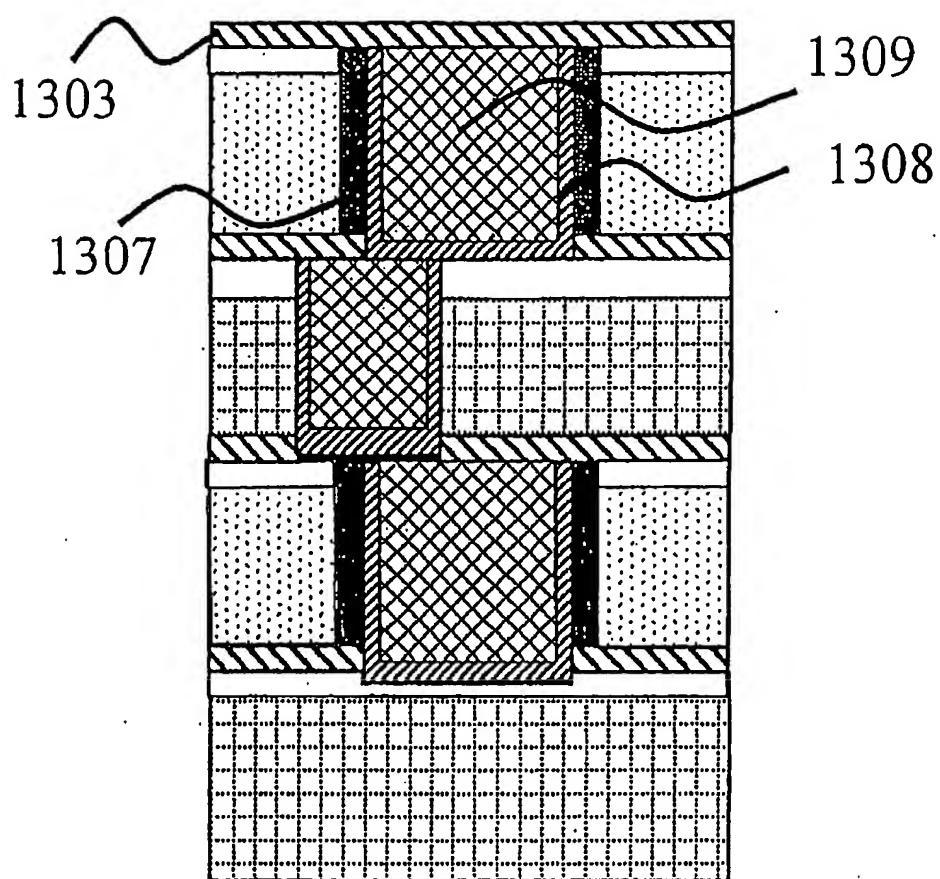


FIG.6A

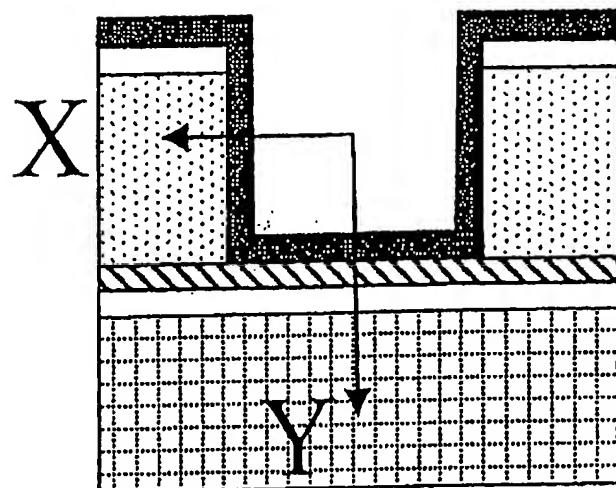


FIG.6B

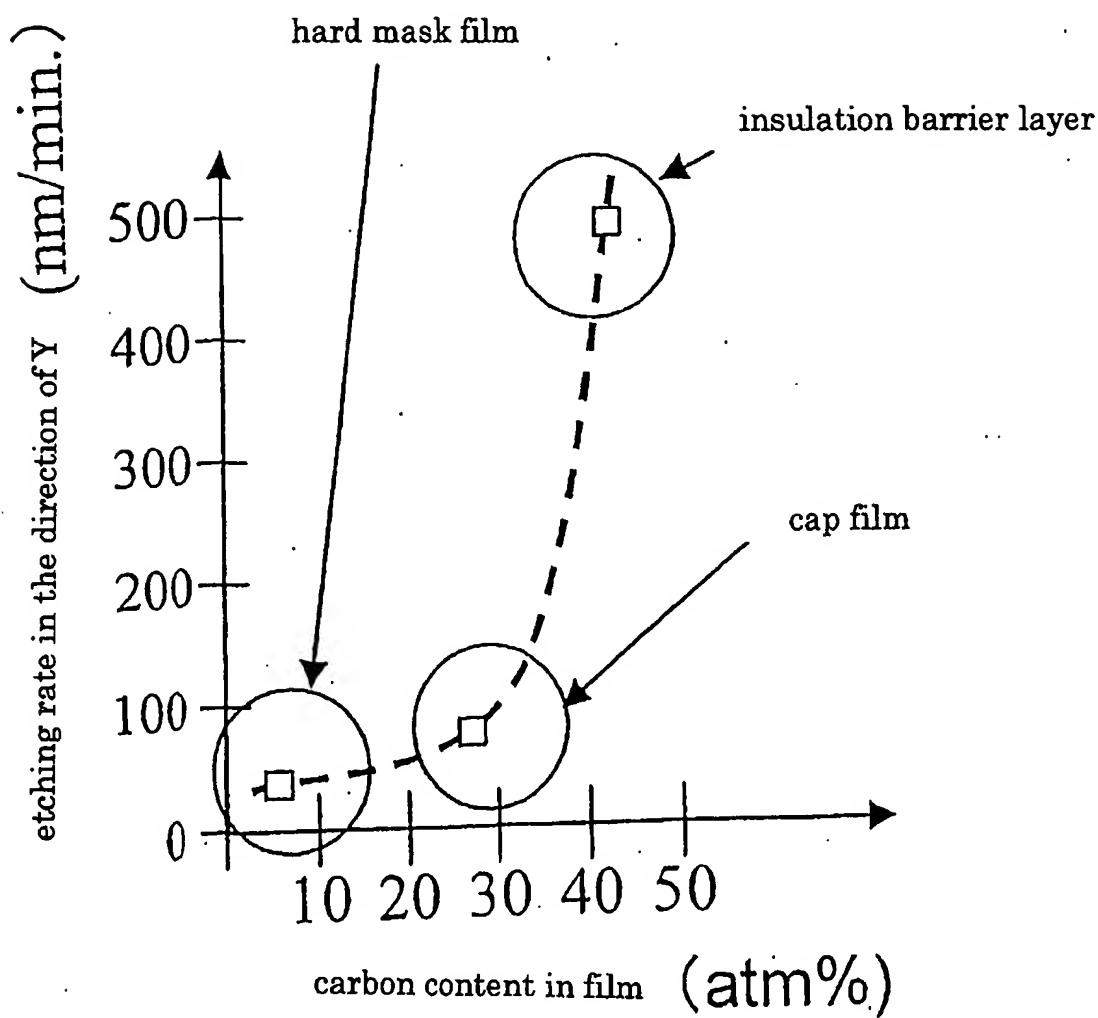


FIG.6C

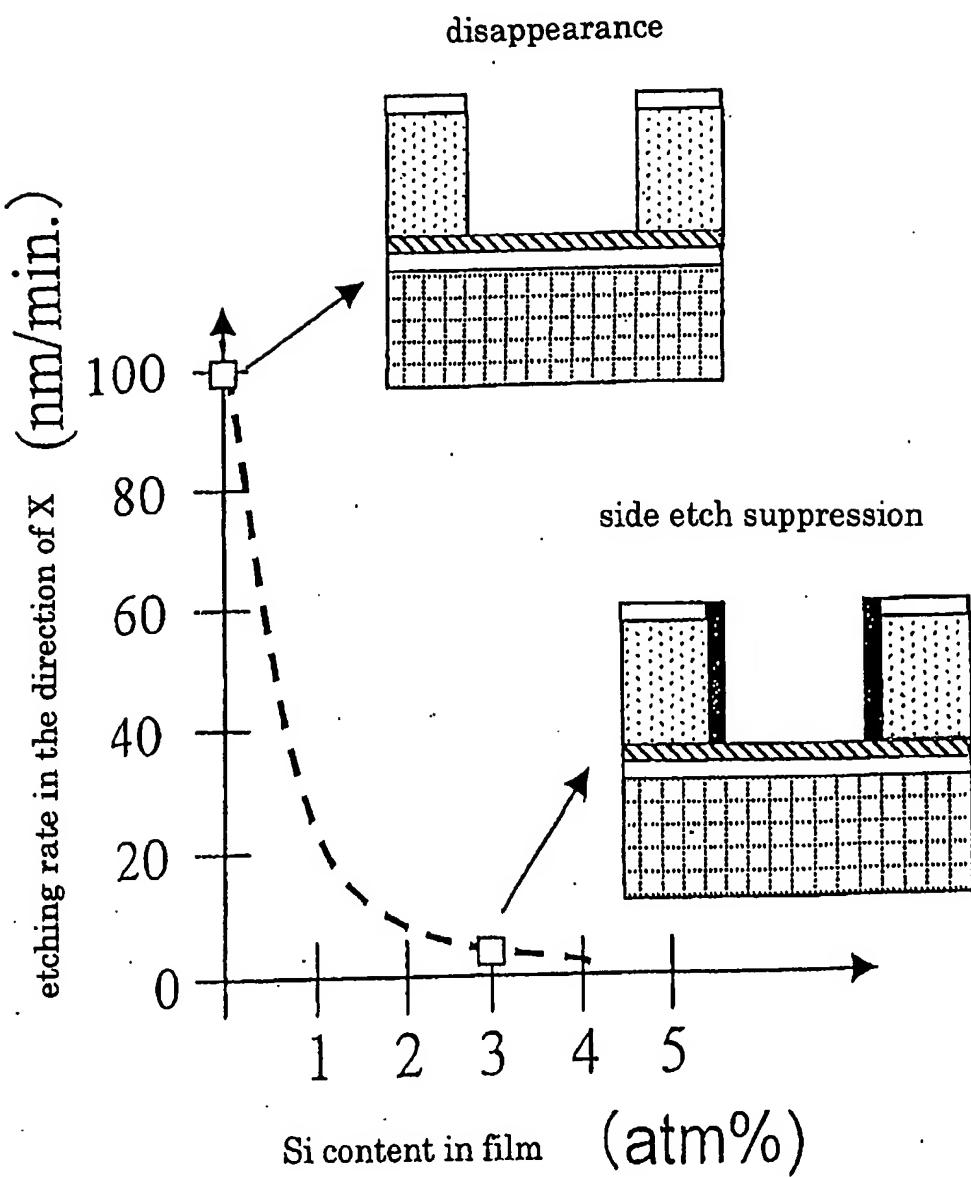


FIG.6D

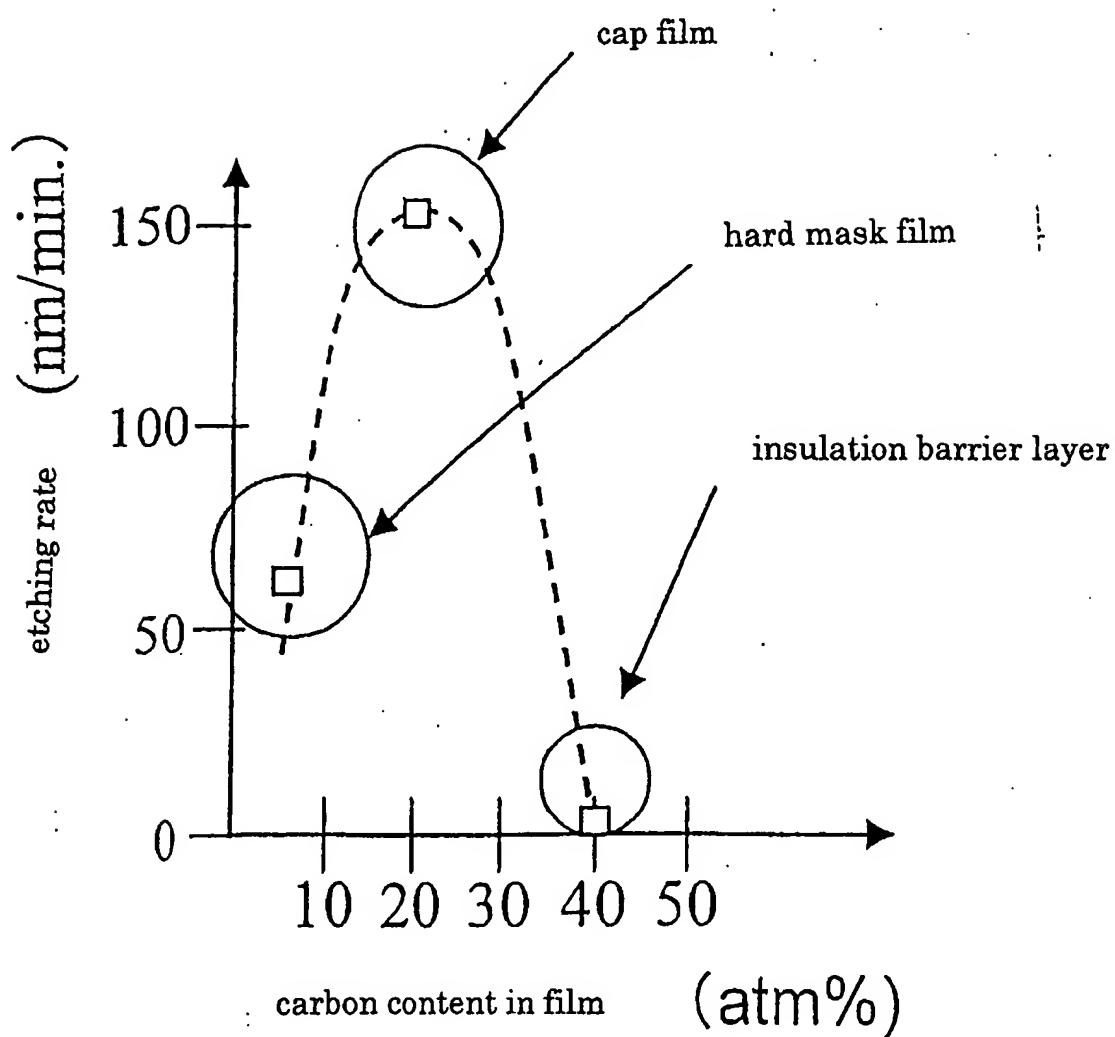


FIG. 7A

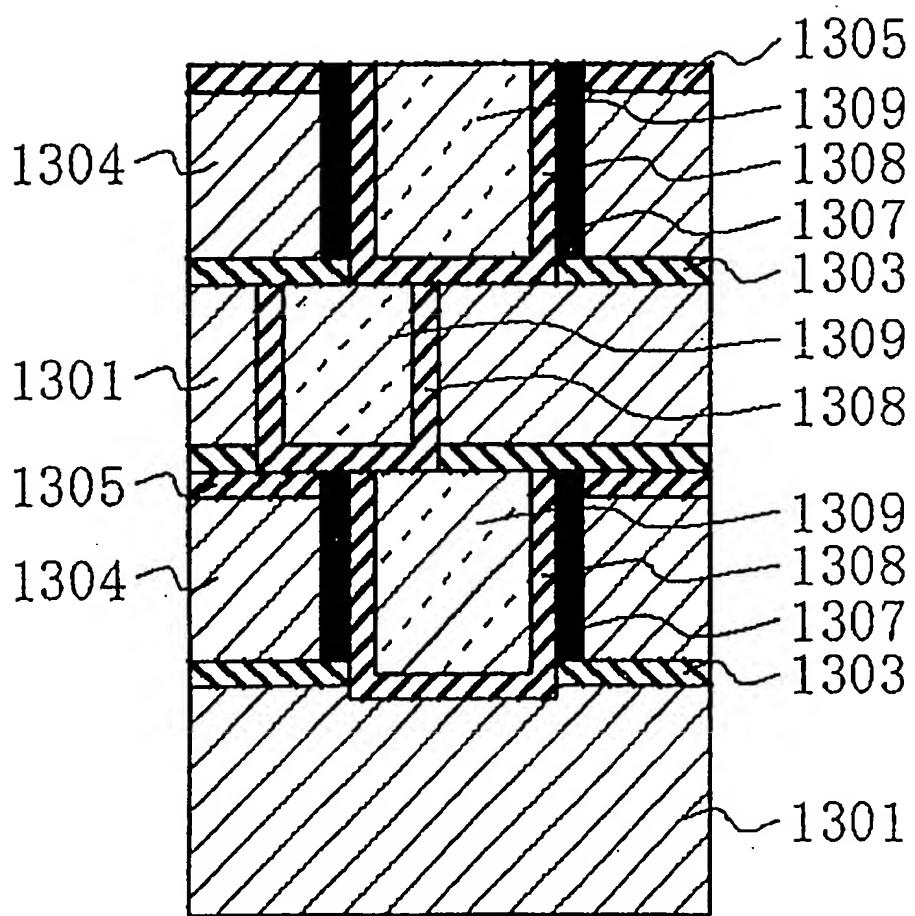


FIG.7B

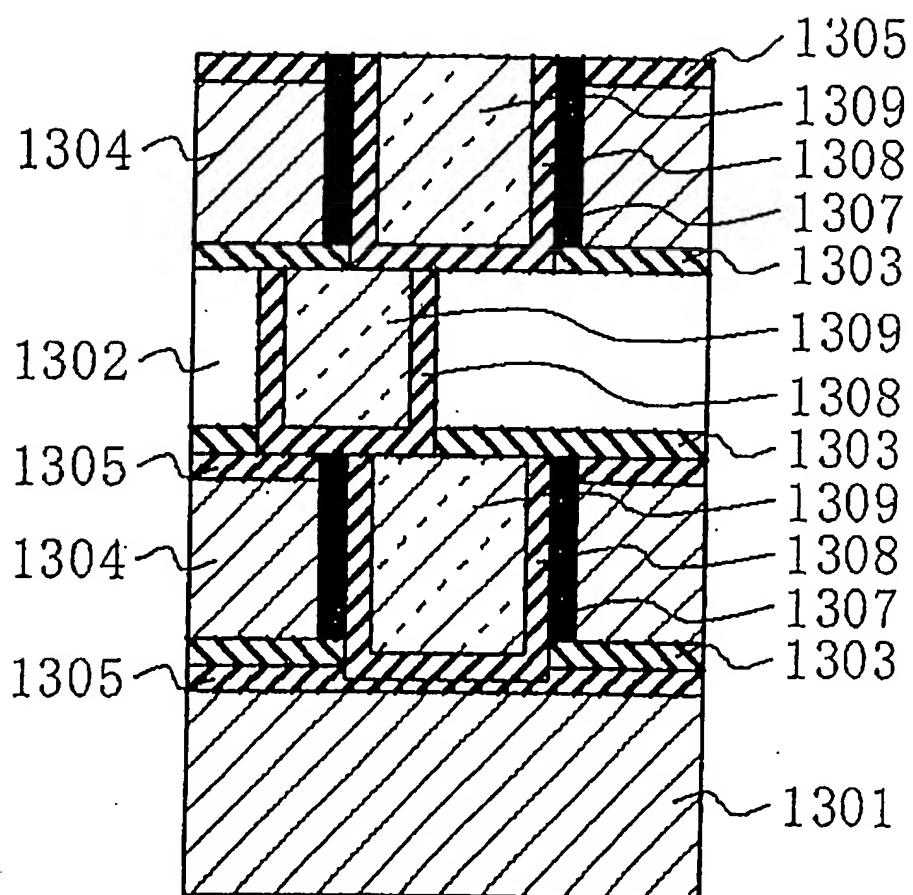


FIG.7C

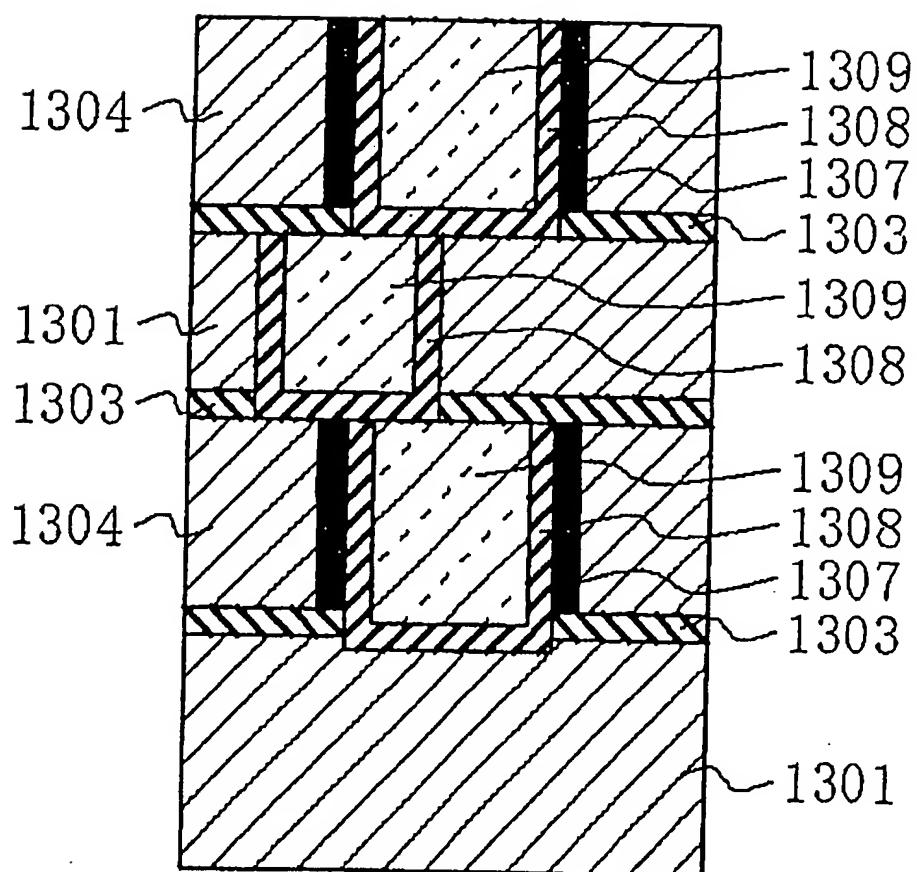


FIG.7D

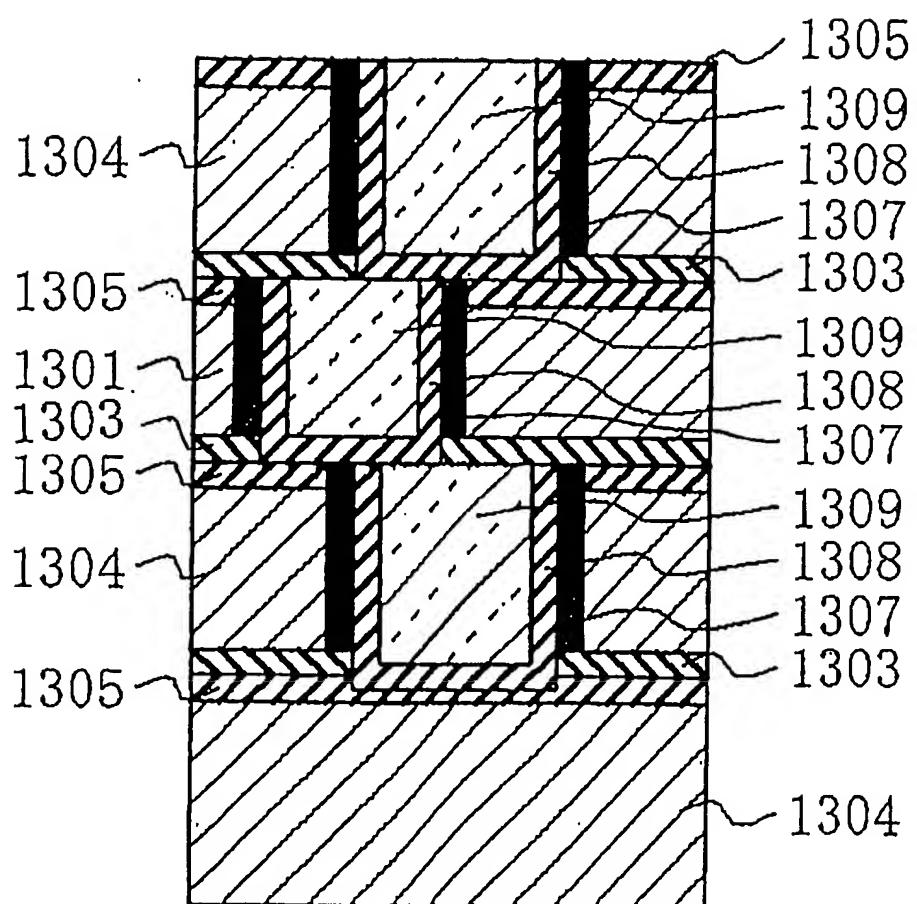


FIG.7E

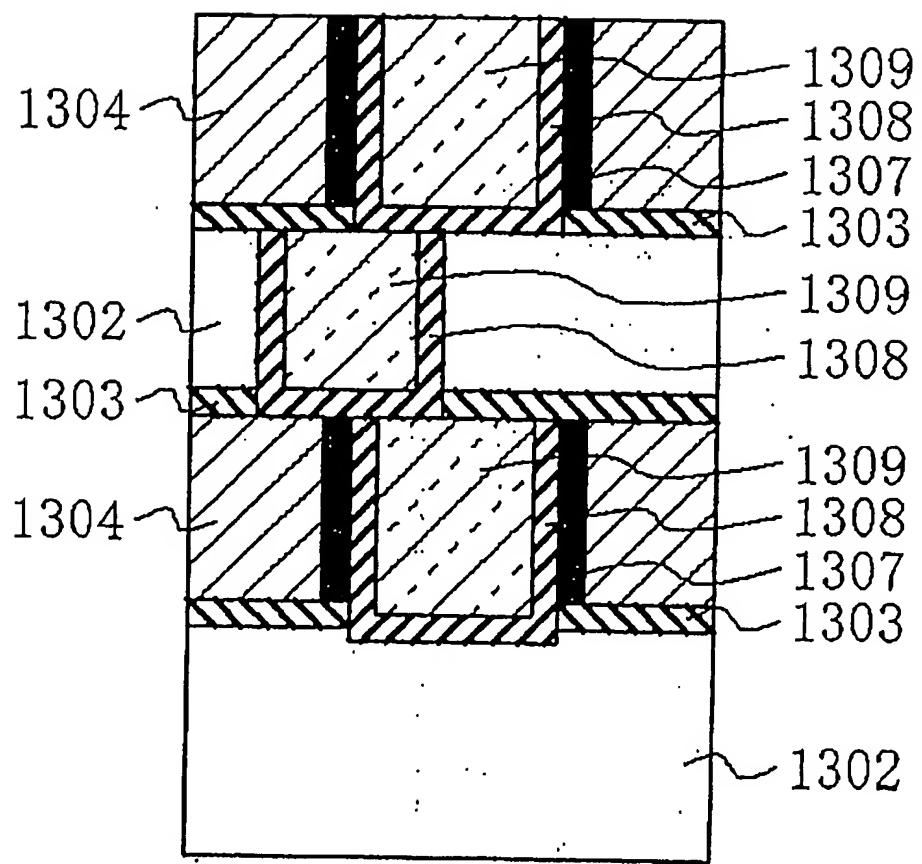


FIG.7F

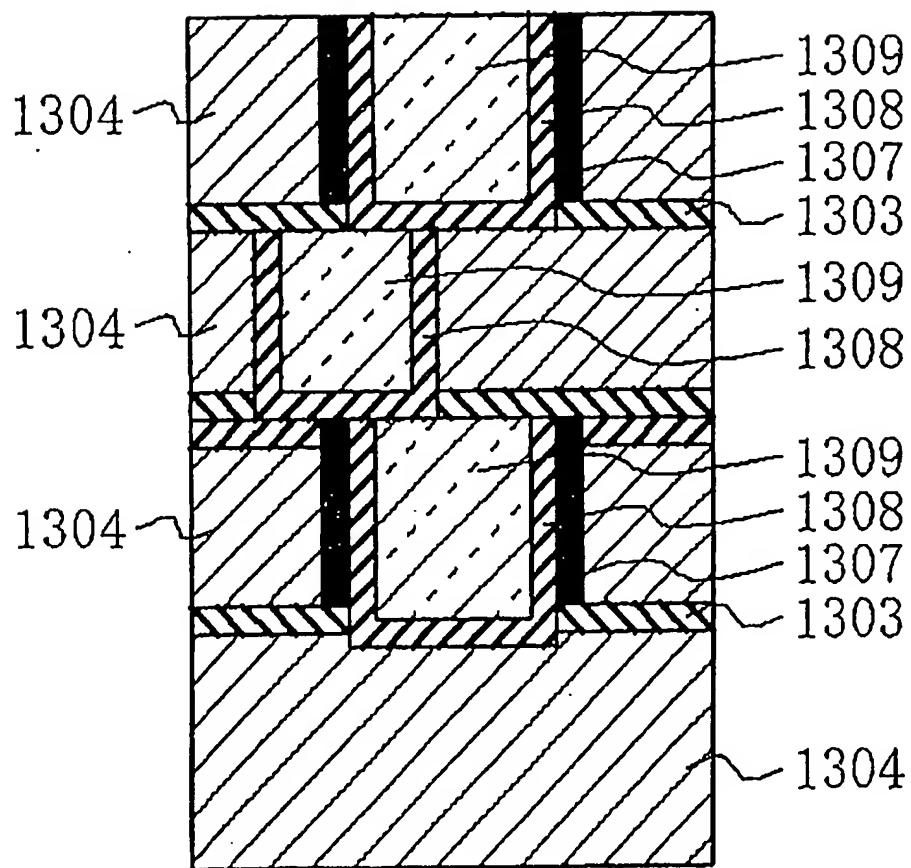


FIG.8A

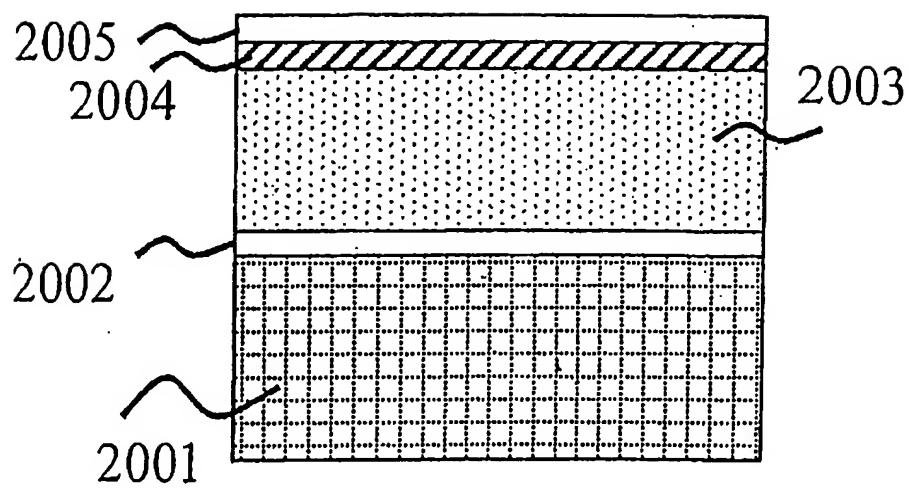


FIG.8B

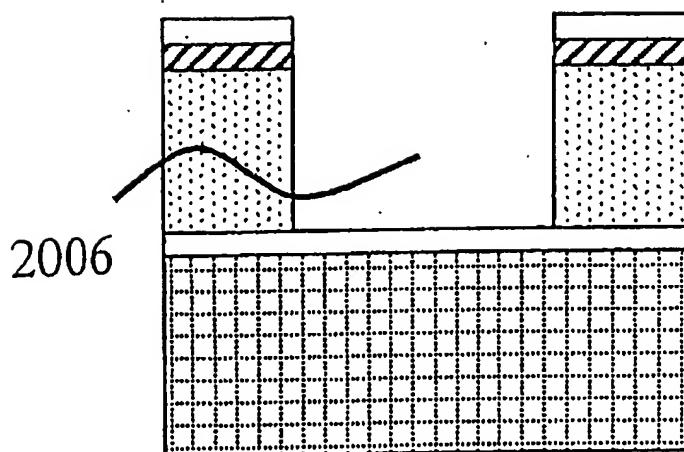


FIG.8C

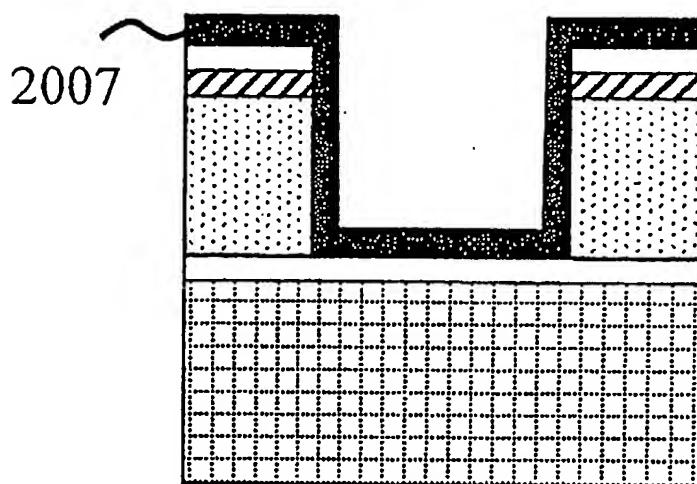


FIG.8D

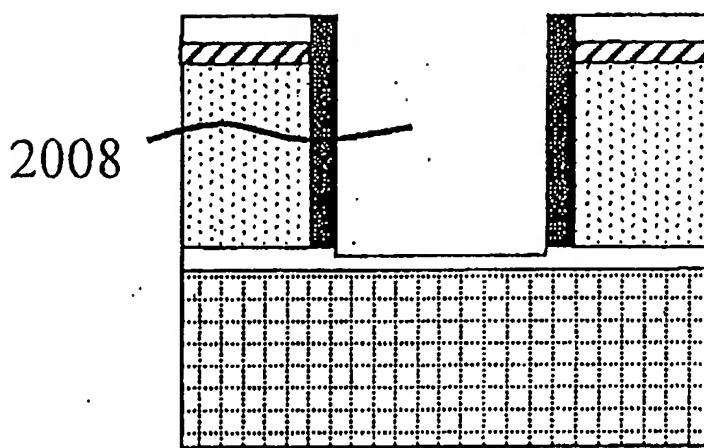


FIG.8E

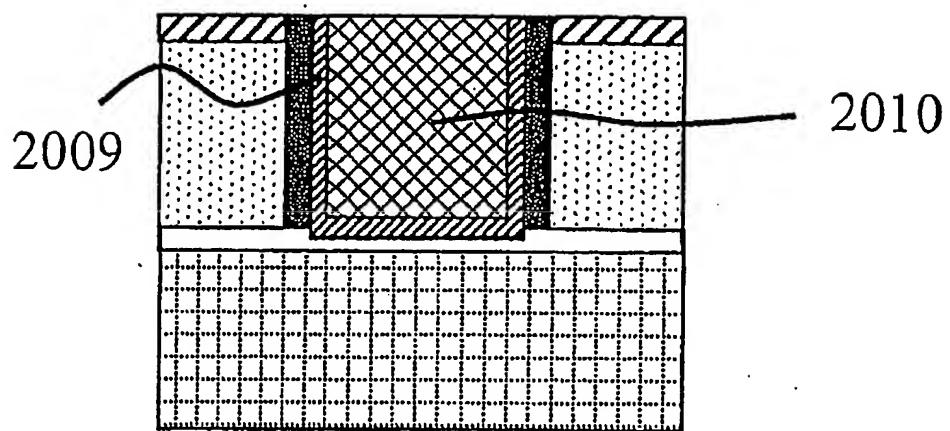


FIG.8F

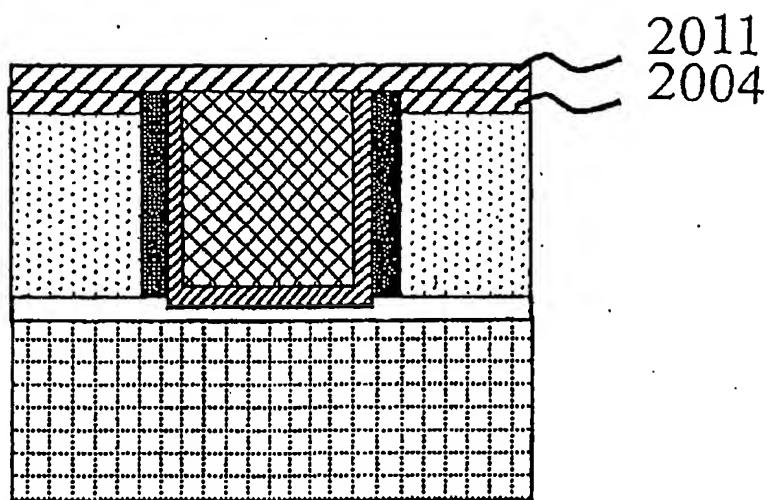


FIG.9A

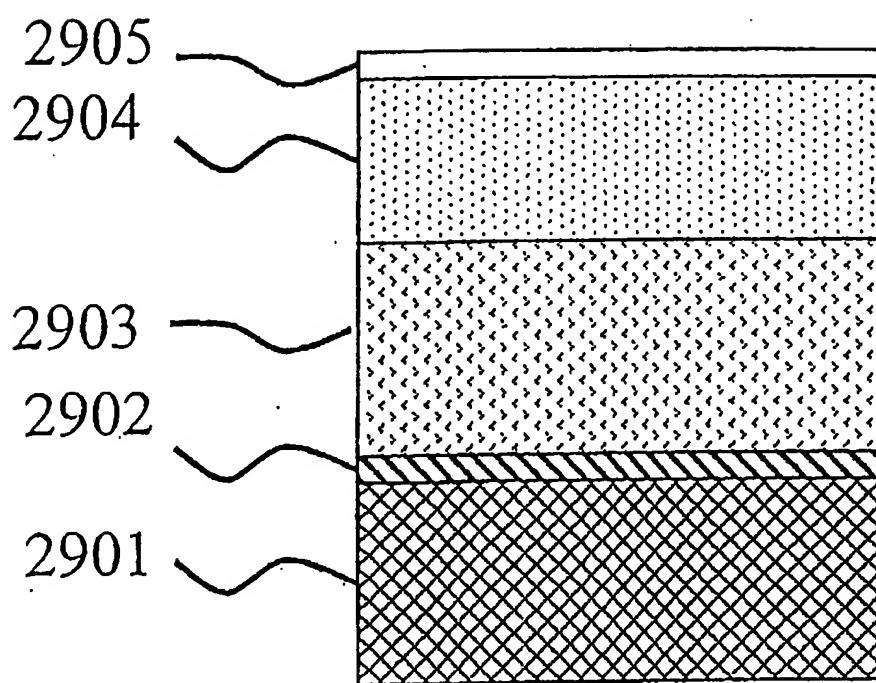


FIG.9B

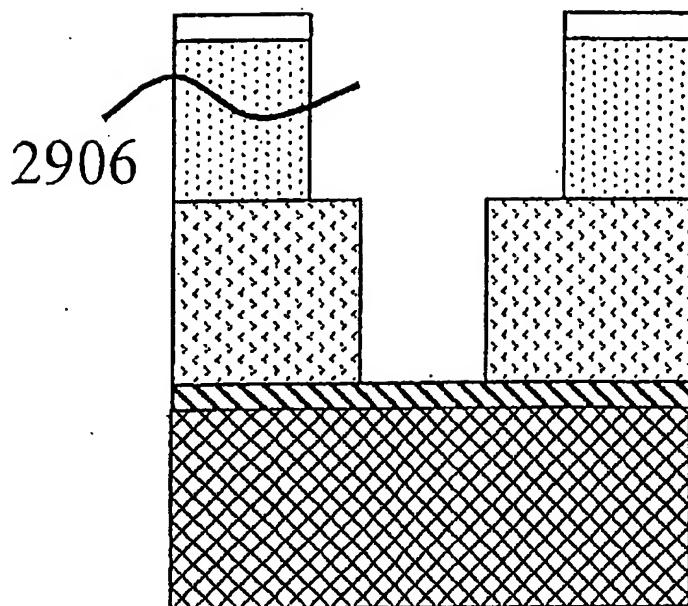
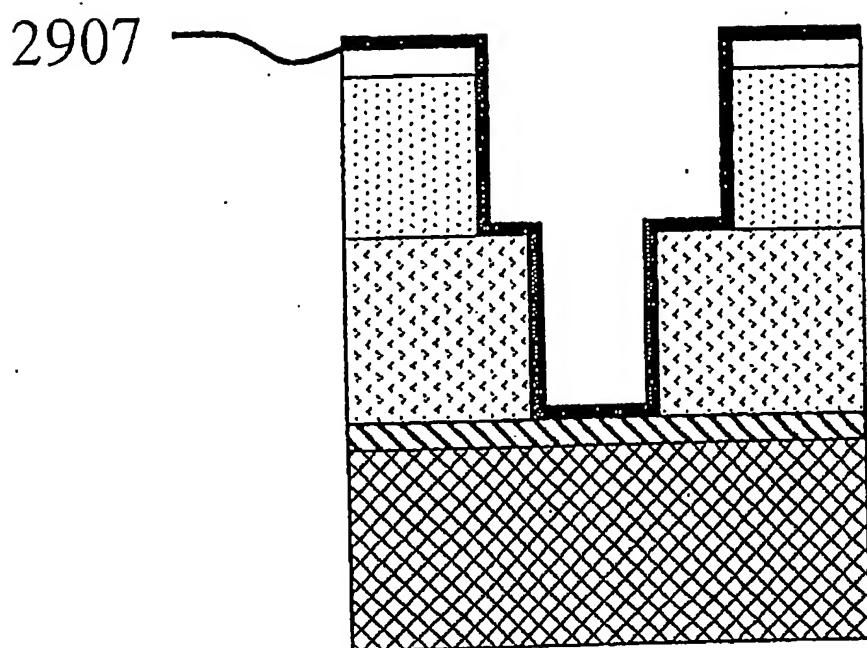


FIG.9C



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FIG.9D

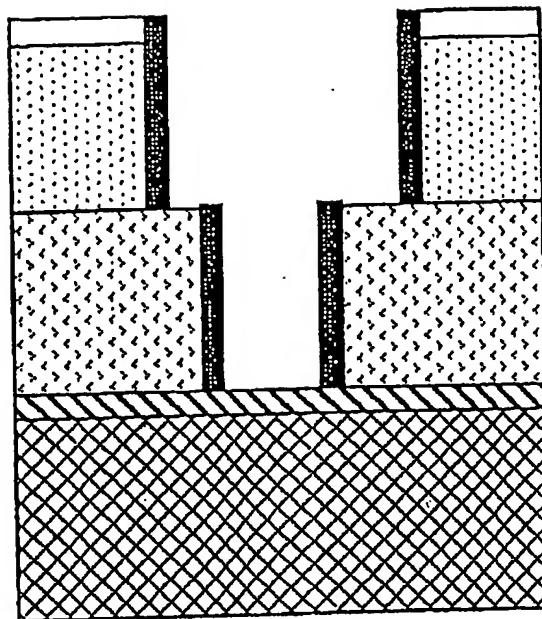
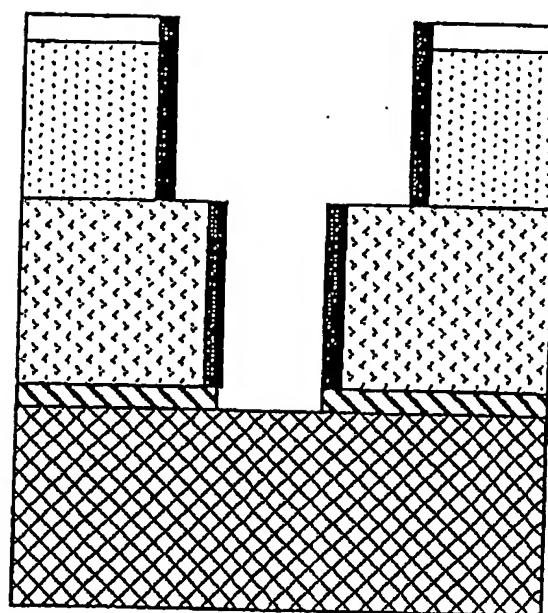


FIG.9E



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FIG.9F

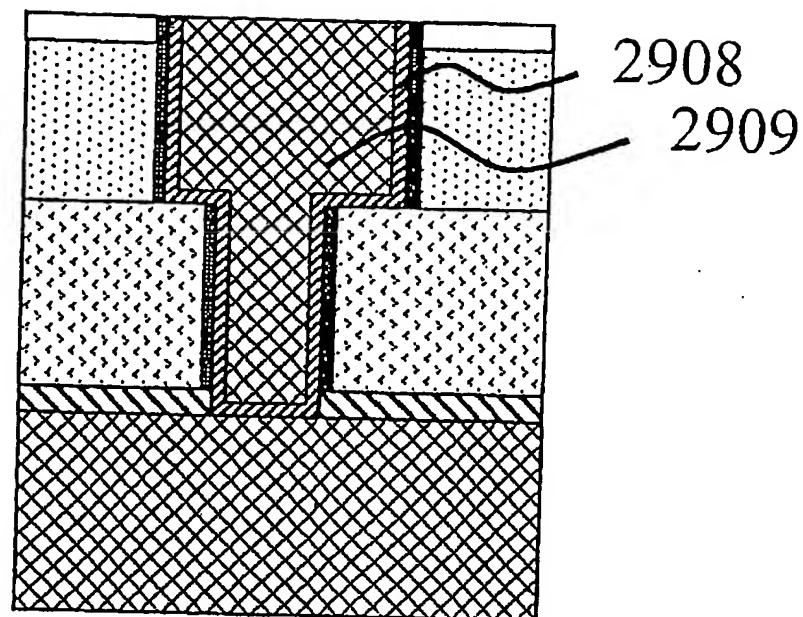


FIG.10A

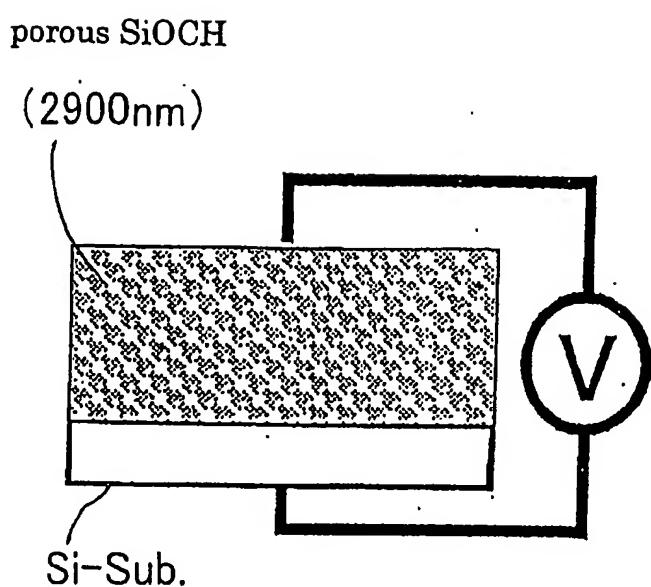


FIG.10B

porous SiOCH

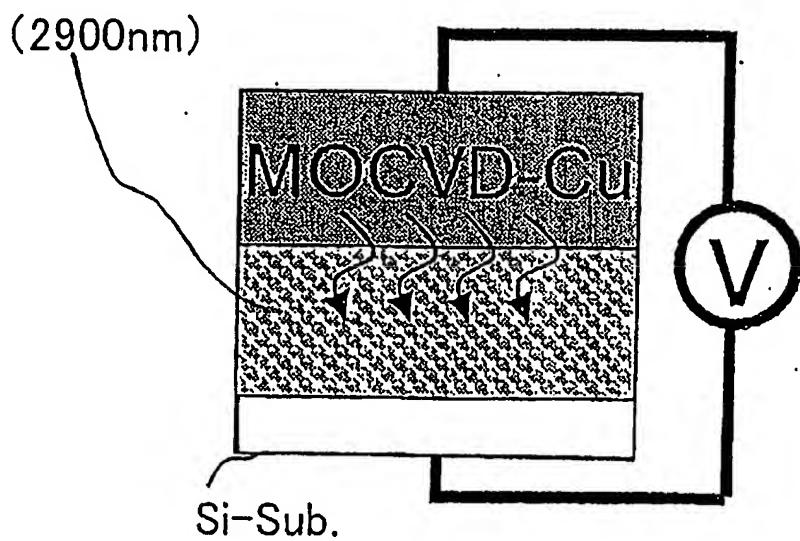


FIG.10C

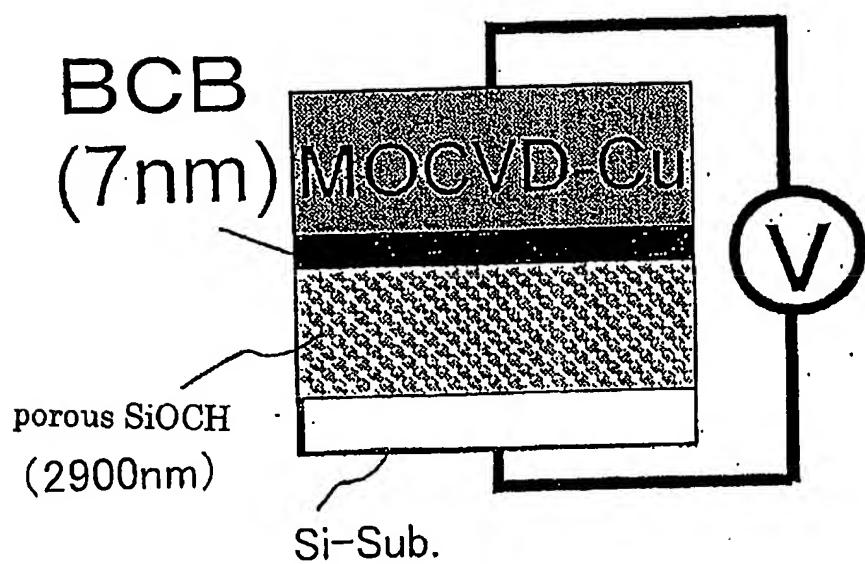


FIG.11

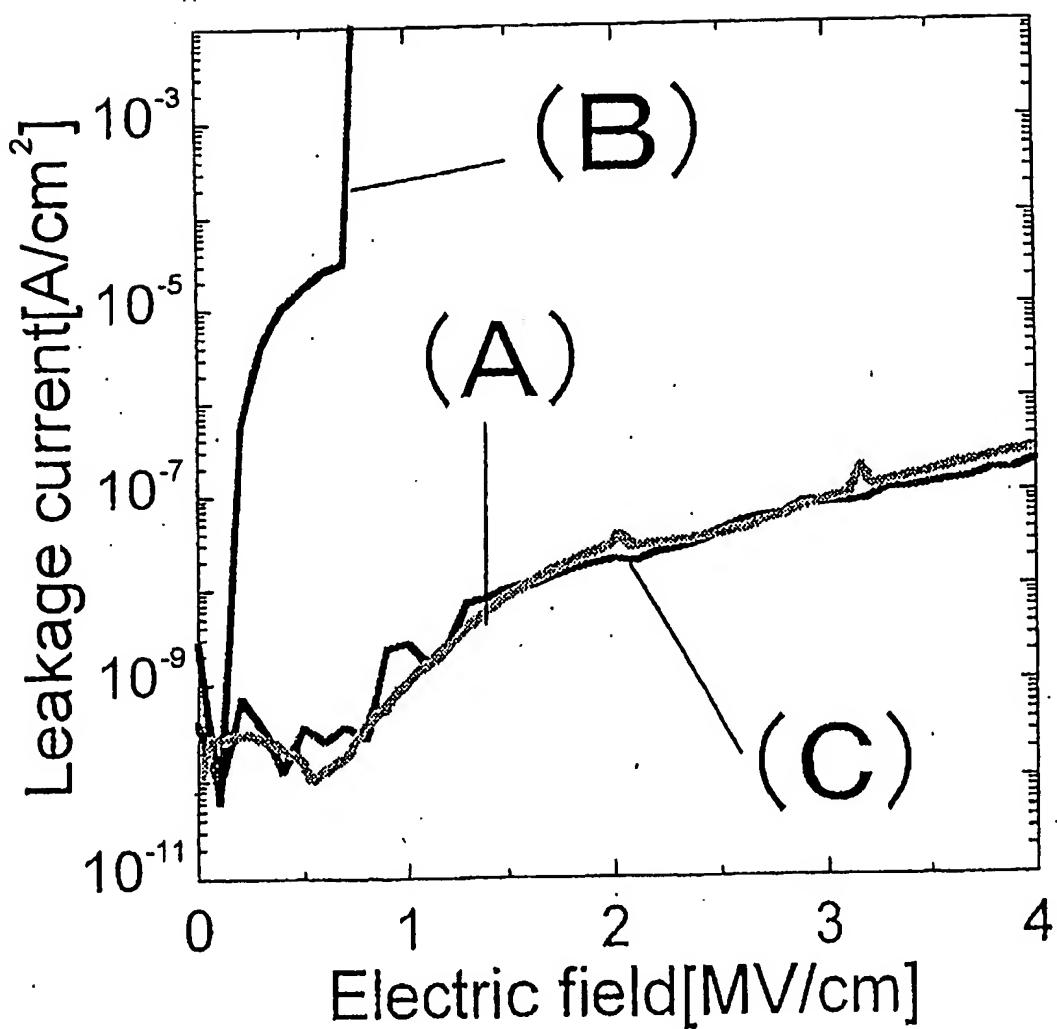
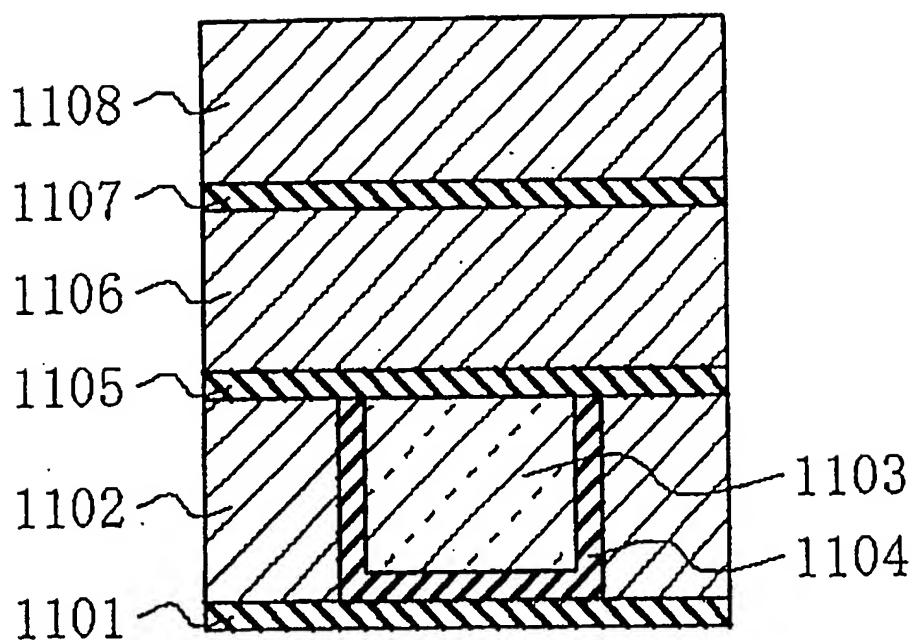


FIG.12A



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FIG.12B

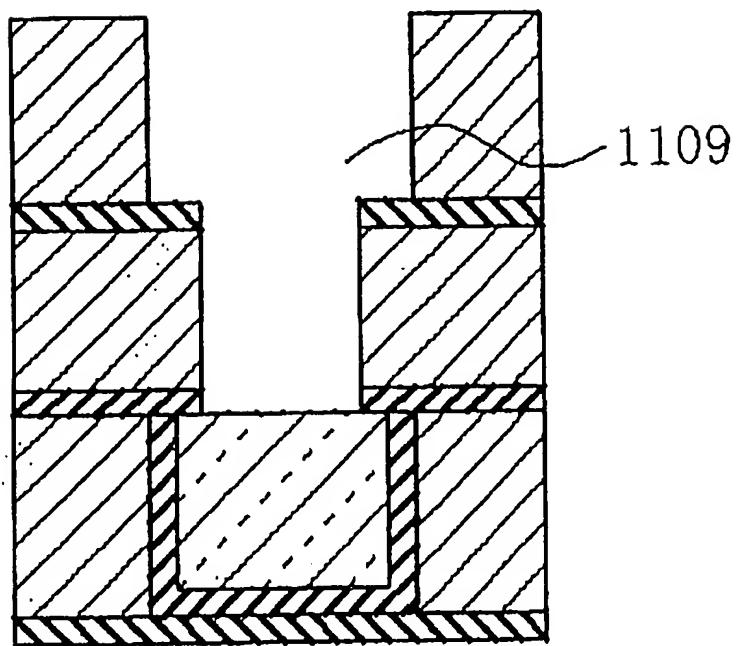


FIG.12C

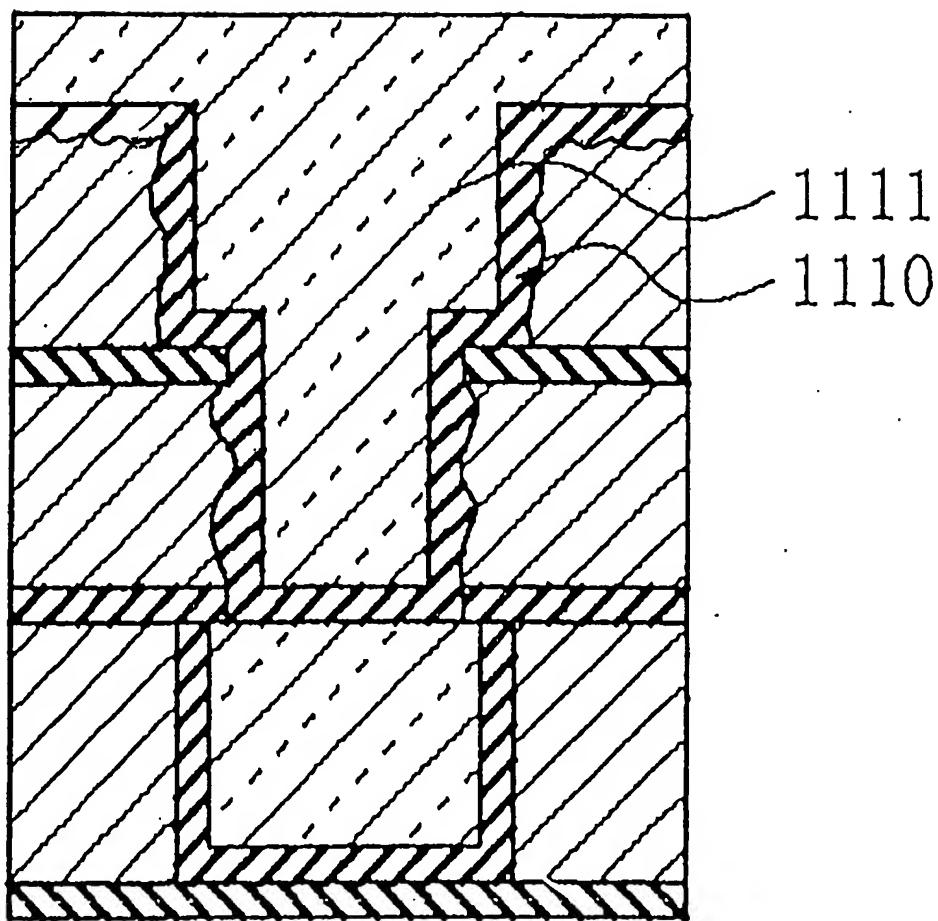


FIG.12D :

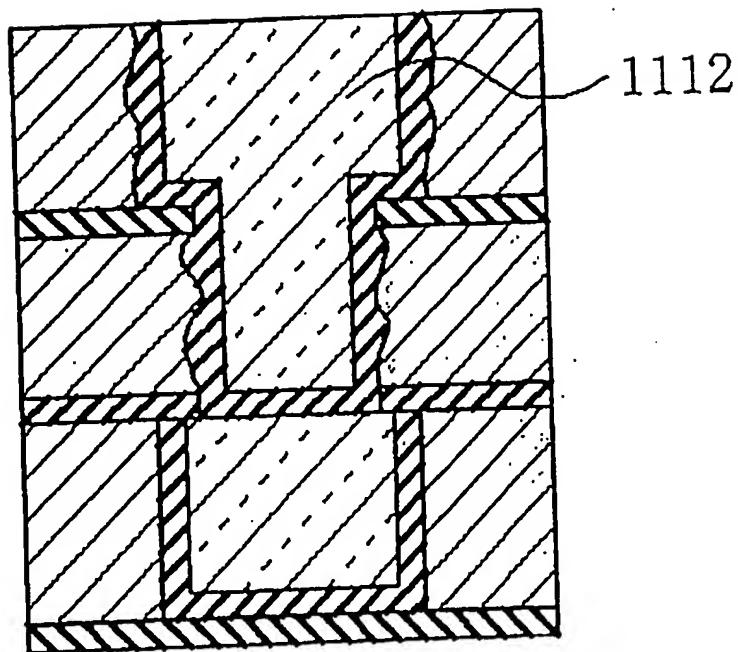


FIG.13

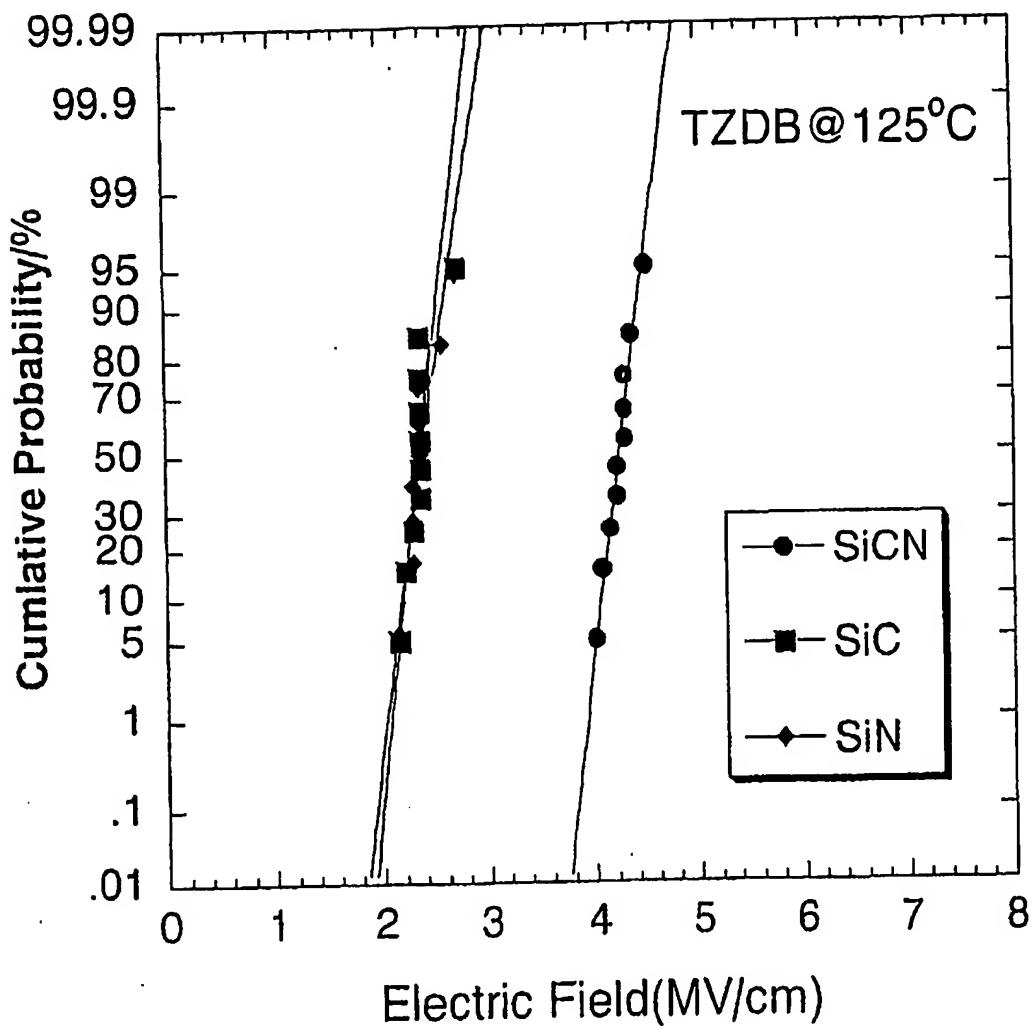


FIG.14

